

FEDERAL ITEM IDENTIFICATION GUIDE

MACHINE TOOL ACCESSORIES

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Commander

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BY ORDER OF THE DIRECTOR

/s/

Commander

Defense Logistics Information Service

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GENERAL INFORMATION

1. Purpose and Scope

This Federal Item Identification Guide (FIIG) is a self-contained document for the collection, coding, transmittal, and retrieval of item characteristics and related supply management data for an item of supply for logistical use. This FIIG is to be used to describe items of supply identified by the index of approved item names appearing in this section.

2. Contents

This FIIG is comprised of the following:

- Index of Approved Item Names Covered by this FIIG
- Applicability Key Index
- Section I - Item Characteristics Data Requirements
- Section III - New text that should be here.
- Appendix A - Reply Tables
- Appendix B - Reference Drawing Groups (as applicable)
- Appendix C - Technical Data Tables (as applicable)

a. Index of Approved Item Names Covered by this FIIG:

The index lists the approved item names with definitions and item name codes as they appear in Cataloging Handbook H6, applicable to this FIIG. In addition, each name entry is assigned an applicability key for use in relating the characteristics requirements in Section I to the specific item name.

b. Applicability Key Index:

The purpose of this index is to provide the user with a ready reference for determining the specific requirements which are applicable to a given approved item name. This index lists all requirements in sequence as they appear in the FIIG. The applicability of a Master Requirement Coded requirement is indicated by the column headed by the specific item name applicability key as follows:

(1) The letter "X" indicates the requirement must be answered for a full descriptive item.

(2) The letters "AR" indicate the requirement is to be answered as required by (1) instructional notes within the FIIG; (2) when the reply is predicated on replies to a related main requirement; or (3) when an asterisk (*) is used in conjunction with the applicability key column in Section I.

(3) A blank in the column indicates the requirement is not applicable to the specific item name.

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c. Section I - Item Characteristics Data Requirements:

This section contains the physical and performance characteristics requirements needed to describe and identify an item of supply. These characteristics differentiate one item from all other items of supply and are to be used to meet the needs of all supported functions. This section is arranged in columns. Identification of each column and instructions pertinent thereto are as follows:

(1) Applicability Key:

The first column shows the applicability key(s) for each requirement. It indicates whether the requirement need be satisfied for the item being identified. "ALL" indicates that the requirement must be answered for all items covered by the FIIG. One or more alphabetic character(s) or group of one or more alphabetic characters indicates a response is required when describing items with an approved item name or names represented by the key(s). An asterisk (*) used in conjunction with any applicability key indicates that the characteristic stated in the requirement may not be applicable to all items covered by the FIIG.

(2) Master Requirement Codes (MRC):

A four-position code which is assigned to a FIIG requirement for identification of the requirement, cross-referencing requirements in the various sections and appendices of the FIIG, and for mechanized processing and retrieval of FIIG generated data. Absence of a MRC for a requirement indicates a lead-in to requirements with individual MRCs in Appendix B.

(a) The coding technique for providing MULTIPLE/OPTIONAL responses will not be used for a Section I requirement assigned Mode Code A or L that leads to Appendix B sketches with dimensional requirements.

(b) Identified Secondary Address Coding:

This technique is for extending the Master Requirement Code so that a unique address is provided for each application of the requirement in relation to the item and is authorized only as instructed within the requirement. Responses coded through this technique will always consist of the following: (1) Master Requirement Codes, (2) indicator code (a single numeric character determined by the number of positions contained), (3) identified secondary address code (1 to 3-digit alphabetic codes determined by the number of predicted replies), (4) the mode code, (5) the reply code and/or clear text response, and (6) end with a record separator (*). Steps (1) through (6) are repeated for each application of the requirement.

(c) AND/OR coding:

A technique for extending the Master Requirement Code to provide a distinctive address for multiple responses to the same requirement. Responses coded through this technique will always consist of (1) Master Requirement Code, (2) mode code, (3) the response or reply code (as instructed by the requirement), (4) a single dollar sign (\$) for an OR condition, or a double dollar sign (\$\$) for an AND condition, (5) the mode code, (6) the response or reply code

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(followed by conditions (4) through (6) for each of the multiple responses) and (7) end with a record separator (*). NOTE: Apply this technique only when instructed by the requirement sample reply (e.g.).

(3) Mode Code:

A one-position alphabetic code that specifies the manner in which a response will be prepared. Each requirement assigned a MRC is also assigned a mode code. Sample replies follow each FIIG requirement displaying the proper construction of a response for the assigned mode code. The response to a requirement will always be prepared in accordance with the assigned mode code and sample reply except in the following instances:

(a) Use of E Mode Code replies is not authorized. If a reply needed to describe an item is not listed in the applicable table, contact the FIIG Initiator.

(b) Mode Code K may not be used for any requirement unless instructed by the requirement instructions.

(4) Requirement:

This portion includes the characteristics data elements and data use identifiers required to identify and differentiate one item of supply from another, narrative definitions, and explanations as to use and method of expression. Instructions for coding and preparing replies are also provided.

(5) Reply Code:

A code that represents an established authorized reply to a requirement.

d. Section III - Supplementary Technical and Supply Management Data:

This section includes those characteristics requirements necessary to support specific logistics functions other than National Stock Number assignment.

e. Appendix A - Reply Tables:

Tables of authorized replies to requirements and reply codes when the tables are too lengthy for inclusion in Section I/III, when applicable.

f. Appendix B - Reference Drawings:

This appendix contains representative illustrations which portray specific variations of one or more generic characteristics. If reference drawings contain requirements pages to be used in conjunction with illustrations for dimensioning purposes, the requirements pages will contain Master Requirement Codes, mode codes, and a statement of the requirement. A response to requirements on a requirements page is necessary only for those Master Requirement Codes applicable to the illustration selected.

g. Appendix C - Technical Data Tables:

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This appendix contains conversion charts and similar data pertinent to the requirements in Section I/III, when applicable.

3. Enter administrative MRC CLQL immediately following the last FIIG requirement reply, as instructed below:

<u>MRC</u>	<u>Mode Code</u>	<u>Requirement</u>	<u>Example</u>
CLQL	G	COLLOQUIAL NAME (common usage name by which an item is known)	CLQLGWOVEN WIRE CLOTH*

4. Special Instructions and Indicator Definitions

a. Measurements:

Unless otherwise indicated within a requirement example, enter all measurements in decimal form, carried to the nearest three decimal places, with a minimum of one digit preceding the decimal. For SI (metric), enter all measurements with a minimum of one digit before and after the decimal. For fraction to decimal conversion, see Appendix C.

b. Indicators:

A cross hatch (#) following an AIN, MRC, Reply Code or Drawing Number indicates for "ALL EXCEPT USA" use only.

5. Indexes

a. Index of Data Requirements

This index is arranged in alphabetic sequence by Master Requirement Code, cross-referenced to the applicable data requirement and page number(s).

b. Index of Approved Item Names

This index is arranged in alphabetic sequence referenced to Applicability Key.

c. Applicability Key Index

This index is arranged in Applicability Key Sequence.

6. Maintenance

Requests for revisions and other changes will be directed to:

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<u>Approved Item Name</u>	<u>INC</u>	<u>App Key</u>
ARBOR, FLY CUTTER	05208	AC
A bar of special steel, machined and ground, having a standard milling machine or Brown and Sharpe taper shank. A square hole with set screws for holding the cutting tool is provided in the body end. It is used with a tool bit ground to an appropriate form for cutting cylindrical holes.		
ARBOR, HOLE SAW	05263	CA
ARBOR, MILLING CUTTER	05221	AD
A bar of special steel, machined and ground, having a standard milling machine, Morse or Brown and Sharpe taper shank and furnished with or without bearing sleeves. It is used for mounting plain hole milling cutters of various types and sizes.		
ARBOR, SHELL END MILL	05424	AA
A bar of special steel, machined and ground, having a standard milling machine or a Brown and Sharpe tapered shank. The body ends are ground to various diameters for mounting the different sizes of shell end mill cutters. It is used with adapters on milling machines having standardized spindle end and Brown and Sharpe milling machines having taper-nose or threaded spindles.		
ARBOR, SHELL REAMER	05037	AB
A bar of special steel, machined and ground, having a Morse taper or a straight shank. The body end is tapered for mounting the cutter, which also has a taper slightly smaller to assure a tight fit. It is used on drilling and milling machines for holding shell reamers.		
BAR, BORING TOOL	05189	UA
An internal turning tool, usually having a single cutting point, used to enlarge a hole, to finish to size, and to insure its being true with a specified center line.		
BLOCK, STEP, MACHINISTS	05024	QB
A device having a 90 degree angle, triangular in shape with steps machined on the hypotenuse. It is used on machine tables to give desired heights for set-up requirements.		
CENTER, LATHE	05089	DA
A device having a straight or tapered shank with a shaped head used as a bearing or support for the work.		

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<u>Approved Item Name</u>	<u>INC</u>	<u>App Key</u>
CHUCK, DRILL	05101	HA
An accessory for holding tools with a plain cylindrical shank such as drills, taps, or the like, by means of two or more internal selfcentering (universal) jaws. It may be attached directly to the spindle of a machine, arbor, shaft, hand mechanism, or the like without the use of centers. The jaws are simultaneously adjusted by an adjusting nut, sleeve, feed screw, or the like. The maximum rated capacity of this item is one (1) inch (25.4mm) diameter. For universal chucks having a capacity in excess of one (1) inch, see CHUCK, UNIVERSAL JAW. Excludes CHUCK, CENTERING, LATHE.		
CHUCK, INDEPENDENT JAW	05173	JA
An accessory used for holding objects directly to the spindle of a machine, arbor, shaft or the like without the use of centers. Two or more jaws are adjusted separately, each by its own adjusting screw, to facilitate holding objects of irregular shape.		
CHUCK, UNIVERSAL JAW	05175	JA
An accessory used for holding objects directly to the spindle of a machine, arbor, shaft, or the like, without the use of centers. Two or more self-centering jaws are adjusted simultaneously, usually by rotation of a scroll gear which engages slots or teeth in the back of the jaws. Maximum rated capacity is in excess of one (1) inch (25.4mm) diameter. For universal chucks having a maximum capacity of one (1) inch (25.4mm) or less, see CHUCK, DRILL. Excludes CHUCK, CENTERING, LATHE.		
CLAMP, PARALLEL, TOOLMAKER'S	19217	NB
COLLET, MACHINE	05102	RA
A work holding device consisting of a longitudinally slotted sleeve which has a tapering or conical end designed to fit into a corresponding taper of a chuck so that the lengthwise movement of the sleeve causes a contraction or expansion of the gripping surfaces. The gripping or holding tension is actuated by a backward pull (draw in) or by a forward push (force in). Used on lathes, milling machines, screw machines and the like. Excludes SOCKET, STRAIGHT SHANK TOOL and SOCKET, TAPER SHANK TOOL.		
CONE, CENTERING, BRAKE DRUM	22217	BA
A conical shaped item (actually a frustum of a cone) with either a stepped, tapered (cone), or spool (one end must be smaller than the other) shaped silhouette between ends, used for aligning a brake drum, on a brake drum lathe, during the turning and/or grinding process. It may fasten to the drum with studs when the drum is without a center bearing.		
DOG, LATHE	05103	FA
A machine tool accessory used as a clamp for gripping a piece of work and conveying motion to it from the face plate.		
FACEPLATE, METALWORKING LATHE	17732	EA

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<u>Approved Item Name</u>	<u>INC</u>	<u>App Key</u>
HOLDER, COUNTERBORE	05223	MB
A cylindrical body having a straight or tapered shank which holds the cutter in place by driving lugs or two splines 180 degrees (3.1 radians) apart. It is used extensively on screw machines and boring mills. Excludes HOLDER, COUNTERSINK.		
HOLDER, COUNTERSINK	05224	MB
A cylindrical shaped device specifically designed to hold and position, as well as to control the cutting depth of a COUNTERSINK. The holder may have a micrometer stop adjustment or a plain sleeve with nut adjustment. Countersink cutters accommodated by this holder are of a specific design. Excludes HOLDER, COUNTERBORE.		
HOLDER, CUTTING TOOL	05188	MA
An accessory designed to hold and support cutter bits or sleeve type boring bars of various types and sizes. It is used on lathes, automatic machines, planers, and shapers. Excludes items such as tool posts.		
INSERT SET, JAW, CLAMP-VISE	49776	QA
Two matched items which fit into the opposing faces of the jaw(s) of a clamp or vise. They permit an item which has a curved surface to be held without damage due to crushing or squeezing during machining operations. Excludes FAIRLEAD, BLOCK.		
JACK, BRACING	05044	PA
A device consisting of a bracing or lifting screw with nut, and a base V-shaped and slotted which permits bracing at various angles to a machine table by blocking or straddling the corners of angle plates or parallels. It is used for supporting or bracing work to be machined.		
JACK, PLANNER	05045	PA
A device consisting of a bracing or lifting screw having a self-aligning swivel head and a flat base. The body is threaded and partially slotted for a locking bolt which clamps the bracing screw in any position. It is used for leveling work on machine tools, layout and inspection tables.		
JACK VERTICAL	05046	PA
A device consisting of a bracing or lifting screw with nut and a flat base. Neither base nor screw revolves, the adjustment for height being made by turning the nut. It is used for leveling work on machine tools, layout and inspection tables.		
MANDREL, EXPANSION	05220	KA
A holding tool, tapered on the overall length and centered on both ends with a flat milled or ground on one end for a holder which, together with a flexible sleeve, is forcibly inserted into the work to support it for machining operations on lathes or milling machines.		

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<u>Approved Item Name</u>	<u>INC</u>	<u>App Key</u>
MANDREL, HONING, MILLING MACHINE	45119	AD
A metal item machined and ground with an integral shank. May have an integral guide shoe that retains and turns a dressing shoe. Used in finishing inside surfaces.		
MANDREL, MACHINE, SOLID	05212	KC
A cylindrical-shaped tool with a slight taper on the overall length, centered on each end with a flat milled on the ends for a holder. It is used for holding work for machining operations on lathes and milling machines.		
MANDREL, TUBE BENDING	33026	KD
A tool that may be either flexible or rigid, designed to be inserted into a tube or hollow section to support the wall and prevent it from flattening or collapsing during bending operations. It is used with a BENDING MACHINE, PIPE AND CONDUIT.		
NIB, DIAMOND, WHEEL DRESSING	07153	WA
An item consisting of an industrial diamond mounted in the end of a metal rod or bar and exposed to provide a cutting point or edge. It is used for truing, shaping, and dressing abrasive wheels. When in use, it is mounted in a suitable holder on a stand or machine and its movement across the wheel surface may be either manual or machine powered.		
PILOT, COUNTERBORE	05204	MC
Excludes PILOT, COUNTERSINK.		
PILOT, COUNTERSINK	05205	MC
A device specifically designed for use in conjunction with a HOLDER, COUNTERSINK to guide and align countersink cutters. Excludes PILOT, COUNTERBORE.		
PILOT, VALVE SEAT REFACING	11030	SA
A device which, when inserted into the bore of a valve guide on an internal combustion engine, serves as a center post for aligning and guiding the grinding stone and/or reamer of a valve seat refacer.		
PLATE, LAPPING	18011	GA
A round, rectangular, or square-shaped item manufactured from various metals. By comparison, its thickness is less than its length, width, or diameter. The lap (abrading surface) has narrow V-shaped or straight-sided grooves to facilitate abrading. Used to produce a geometrically flat or smooth surface by abrasion. Excludes BLOCK, LAPPING. See also PLATE, DUPLEX, SURFACE AND LAPPING and PLATE, SURFACE.		
PLATE, POLISHING, FIBER OPTICS	45357	AC
A round, rectangular or square shaped metal item. By comparison, its thickness is less than its length, width, or diameter. The polishing area is covered with replaceable polishing paper. It is used to produce a smooth surface, on fiber optic terminations.		

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<u>Approved Item Name</u>	<u>INC</u>	<u>App Key</u>
SLEEVE, EXPANSION MANDREL	22244	KB
A cylindrical spring type metal expansion sleeve which is a component of a MANDREL, EXPANSION.		
SOCKET, STRAIGHT SHANK TOOL	05087	TA
A machine socket adapter for extending the length of tool sockets and/or for converting the size of sockets to size of straight tool shanks.		
SOCKET, TAPER SHANK TOOL	05088	TB
A machine socket adapter for extending the length of tool sockets and/or for converting the size of sockets to size of taper tool shanks.		
STONE AND HOLDER, CYLINDER HONE	08053	LA
A mounted length of abrasive or combination of abrasive and cork. The stone is integral with the mount for use in conjunction with a cylinder honing tool.		
Table		
1. An item having a flat, slablike surface supported on legs or other support. It may have drawers arranged beneath the top, but has a free area underneath on all sides in order to accommodate a seated person's legs.		
2. An item consisting of a relatively flat top mounted on supporting structures. It must have a feature or features which distinguish it as an industrial, professional, or utility item. Examples of these features are shelf, cabinet, or drawer space in lieu of space for a person's legs; slots or other mounting or clamping devices for securing tools or other objects required for utilization of the item; equipment built-in or supplied with the item which is required for use of the item; or any other feature or features which identify the item as an industrial, professional, or specific utility item.		
TABLE (2), FRAME ASSEMBLY	41842	VA
An item designed to align frame parts for smooth construction of all types of wood, plywood frames, plastic covered frames or particle board regardless of thickness of material. Item may or may not be equipped with a drill unit.		
TABLE, POSITIONING	37675	VA
An item designed to accurately position another item for inspection, testing, maintenance or machining. The item is capable of linear and/or rotational movement but is not furnished with a work-holding device such as a chuck or vise. It may be manually operated or motor driven. Excludes POSITIONER, WELDING.		
V-BLOCK	04964	QA
A fixture of cast iron or steel, precision ground, having one or more V grooves machined parallel and squared with respect to the bottom, top, and ends. The block may have milled grooves on the sides to accommodate clamps which are used for holding cylindrical work.		

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<u>Approved Item Name</u>	<u>INC</u>	<u>App Key</u>
V-BLOCK SET, MATCHED	04965	QA

A set of two or more matched V-BLOCKS.

WISE, MACHINE TABLE	05023	NA
---------------------	-------	----

A clamping device consisting of a base and two jaws for use on a drilling machine, milling machine, grinding machine and the like. The base may be of stationary type or may be designed for angular adjustment. It may be bolt, screw, or strap clamp mounted on flat surface for resting upon the machine table. Excludes WISE, BENCH AND MACHINE TABLE.

FIIG T182
GENERAL INFORMATION
APPLICABILITY KEY INDEX

APPLICABILITY KEY INDEX

	<u>AA</u>	<u>AB</u>	<u>AC</u>	<u>AD</u>
NAME	X	X	X	X
AQPP	X	X	X	X
AAZE	AR	AR	AR	AR
AQPQ	AR	AR	AR	AR
ADFN	X		X	X
ABUJ	AR		AR	AR
AJYP	AR		AR	AR
AAJF	AR		AR	AR
BBQT	X			
BBQW	X			
BBQX		X		
BBQY		X		
ABHP		X		
BBQZ			X	
BBRB				X
BCBZ				X
BCCB				X
AAVL				AR
BCCC				X
BCCD				X
BCCF				X
NMBR				AR
ABKV				AR
FEAT	AR	AR	AR	AR
TEST	AR	AR	AR	AR
SPCL	AR	AR	AR	AR
ZZZK	AR	AR	AR	AR
ZZZT	AR	AR	AR	AR
ZZZW	AR	AR	AR	AR
ZZZX	AR	AR	AR	AR
ZZZY	AR	AR	AR	AR
CRTL	AR	AR	AR	AR
PRPY	AR	AR	AR	AR
ELRN	AR	AR	AR	AR
ELCD	AR	AR	AR	AR
AFJK	AR	AR	AR	AR
SUPP	AR	AR	AR	AR
ZZZP	AR	AR	AR	AR
ZZZV	AR	AR	AR	AR
CXCY	AR	AR	AR	AR

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BA

NAME	X
ALBY	X
AQWR	AR
BCCG	AR
AQYR	AR
BCCH	AR
BCCJ	AR
BCKK	AR
BCCL	AR
BCCM	AR
BCCN	AR
ABVK	AR
AJYP	AR
AAJF	AR
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
AFJK	AR
SUPP	AR
ZZZP	AR
ZZZV	AR
CXCY	AR

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CA

NAME	X
ASWL	X
ABMZ	AR
AAZR	AR
AGJR	AR
ASDB	AR
BCCP	AR
BCCQ	AR
BCCR	AR
BCCS	X
AAVL	AR
BCCT	AR
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
AFJK	AR
SUPP	AR
ZZZP	AR
ZZZV	AR
CXCY	AR

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	<u>DA</u>
NAME	X
APGF	X
ACSK	AR
BCCW	X
BCCX	AR
BCDB	AR
BNLK	AR
BNLL	AR
ALBY	X
BNDC	X
BCRF	AR
AQQT	X
ASWL	X
AQZL	AR
AQPQ	AR
ABMZ	AR
ABHP	X
AFJF	AR
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
AFJK	AR
SUPP	AR
ZZZP	AR
ZZZV	AR
CXCY	AR

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	<u>EA</u>
NAME	X
MATL	X
BCRG	X
ATPP	X
ABKV	X
BCNX	AR
BCRX	AR
BCSF	AR
BCRY	AR
AASA	AR
BCRZ	AR
BCSB	AR
AJYQ	AR
CQQR	AR
BCSC	X
ABMD	AR
ABMH	AR
AKYD	AR
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
AFJK	AR
SUPP	AR
ZZZP	AR
ZZZV	AR
CXCY	AR

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GENERAL INFORMATION
APPLICABILITY KEY INDEX

	<u>FA</u>
NAME	X
APGF	X
BCSD	X
BCSG	X
AXQD	X
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
AFJK	AR
SUPP	AR
ZZZP	AR
ZZZV	AR
CXCY	AR

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GENERAL INFORMATION
APPLICABILITY KEY INDEX

GA

NAME	X
MATL	X
AZAH	X
ABRY	AR
ABGL	AR
ABMZ	AR
BQNW	X
BQNX	X
BQNY	AR
BJWB	X
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
AFJK	AR
SUPP	AR
ZZZP	AR
ZZZV	AR
CXCY	AR

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	<u>HA</u>
NAME	X
APQB	X
ACSK	AR
BJWC	X
ABSX	X
BDHD	X
BJWD	AR
BJWF	X
AGLD	X
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
AFJK	AR
SUPP	AR
ZZZP	AR
ZZZV	AR
CXCX	AR

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GENERAL INFORMATION
APPLICABILITY KEY INDEX

JA

NAME	X
AAFZ	X
BMDG	X
BJWG	X
BJWH	X
BJWJ	X
BJWK	X
ADYT	X
BJWL	X
BCNX	AR
BCRX	AR
BCSF	AR
BCRY	AR
AASA	AR
BCRZ	AR
BCSB	AR
AJYQ	AR
BCSC	X
ABMD	AR
ABMH	AR
BJWM	X
BJWN	AR
BJWP	AR
AKYD	AR
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
AFJK	AR
SUPP	AR
ZZZP	AR
ZZZV	AR
CXCY	AR

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GENERAL INFORMATION
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	<u>KA</u>	<u>KB</u>	<u>KC</u>	<u>KD</u>
NAME	X	X	X	X
MATL		X	X	X
BJWQ			X	
APGF	X			X
CQTG	AR			AR
ACSV	AR			AR
BXLG	AR			AR
ABKH	AR			AR
BJWR	AR	X		
AJXE	X			
ABHP	X	X	X	
BDNB			X	
BQNZ	X			
BQPB	X			
BQPC	X			
BJWS		X		
BJWT	X			
FEAT	AR	AR	AR	AR
TEST	AR	AR	AR	AR
SPCL	AR	AR	AR	AR
ZZZK	AR	AR	AR	AR
ZZZT	AR	AR	AR	AR
ZZZW	AR	AR	AR	AR
ZZZX	AR	AR	AR	AR
ZZZY	AR	AR	AR	AR
CRTL	AR	AR	AR	AR
PRPY	AR	AR	AR	AR
ELRN	AR	AR	AR	AR
ELCD	AR	AR	AR	AR
AFJK	AR	AR	AR	AR
SUPP	AR	AR	AR	AR
ZZZP	AR	AR	AR	AR
ZZZV	AR	AR	AR	AR
CXCY	AR	AR	AR	AR

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	<u>LA</u>
NAME	X
AJUL	X
BJWW	X
ABRY	AR
AKDN	X
AHCM	X
BJWY	X
BJWZ	X
AHDY	X
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
AFJK	AR
SUPP	AR
ZZZP	AR
ZZZV	AR
CXCX	AR

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	<u>MA</u>	<u>MB</u>	<u>MC</u>
NAME	X	X	X
APGF	X	X	
BJXG	X		
BJXH	X		
AQPP	AR	X	X
AAZE	AR	AR	X
ACVR	AR		
AQZQ	AR		
AATR	AR		
BCCY		AR	
BJXJ	X		
BJXK	X		
ABGL	AR		
ABNM	AR		
ABMZ	AR		
BJXL		X	
BJXM		X	
AASL			X
AASV			X
AKYD	AR		
FEAT	AR	AR	AR
TEST	AR	AR	AR
SPCL	AR	AR	AR
ZZZK	AR	AR	AR
ZZZT	AR	AR	AR
ZZZW	AR	AR	AR
ZZZX	AR	AR	AR
ZZZY	AR	AR	AR
CRTL	AR	AR	AR
PRPY	AR	AR	AR
ELRN	AR	AR	AR
ELCD	AR	AR	AR
AFJK	AR	AR	AR
SUPP	AR	AR	AR
ZZZP	AR	AR	AR
ZZZV	AR	AR	AR
CXCY	AR	AR	AR

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	<u>NA</u>	<u>NB</u>
NAME	X	X
APHE	X	
BJXN	AR	
BJDW	AR	
AEVP	AR	
ATQJ	X	
BJXP	X	
BJXQ		X
BJXR	X	X
BJXS	AR	
AWET	X	
BJXT	AR	
BJXW	X	
AKYD	AR	
FEAT	AR	AR
TEST	AR	AR
SPCL	AR	AR
ZZZK	AR	AR
ZZZT	AR	AR
ZZZW	AR	AR
ZZZX	AR	AR
ZZZY	AR	AR
CRTL	AR	AR
PRPY	AR	AR
ELRN	AR	AR
ELCD	AR	AR
AFJK	AR	AR
SUPP	AR	AR
ZZZP	AR	AR
ZZZV	AR	AR
CXCY	AR	AR

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APPLICABILITY KEY INDEX

	<u>PA</u>
NAME	X
BJXX	X
BJGJ	X
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
AFJK	AR
SUPP	AR
ZZZP	AR
ZZZV	AR
CXCY	AR

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GENERAL INFORMATION
APPLICABILITY KEY INDEX

	<u>QA</u>	<u>QB</u>
NAME	X	X
APGF	X	X
MATL	X	X
ATNN	X	X
AGYE	X	X
BJXZ	AR	AR
BMDC	X	
BMDD	X	
BMDF	AR	AR
ABRY	X	X
ABGL	X	X
HGTH	X	X
BMDG	X	AR
BQDM	AR	AR
BQDP	AR	AR
BQDQ	AR	AR
AAUB	AR	AR
BQDR	AR	AR
BQDS	AR	AR
ABUJ	AR	AR
AKYD	AR	AR
FEAT	AR	AR
TEST	AR	AR
SPCL	AR	AR
ZZZK	AR	AR
ZZZT	AR	AR
ZZZW	AR	AR
ZZZX	AR	AR
ZZZY	AR	AR
CRTL	AR	AR
PRPY	AR	AR
ELRN	AR	AR
ELCD	AR	AR
AFJK	AR	AR
SUPP	AR	AR
ZZZP	AR	AR
ZZZV	AR	AR
CXCY	AR	AR

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APPLICABILITY KEY INDEX

	<u>RA</u>
NAME	X
APGF	X
MATL	X
BMDH	X
BMDK	X
BMDJ	AR
AECW	AR
ABHP	X
APJC	AR
ABUJ	AR
AJYP	AR
AAJF	AR
CQQR	AR
AKYD	AR
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
AFJK	AR
SUPP	AR
ZZZP	AR
ZZZV	AR
CXCY	AR

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APPLICABILITY KEY INDEX

SA

NAME	X
APGF	X
BJWR	AR
BGBD	X
STYL	X
BMDM	AR
BMDN	AR
BMDP	AR
BMDQ	AR
BMDL	X
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
AFJK	AR
SUPP	AR
ZZZP	AR
ZZZV	AR
CXCY	AR

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GENERAL INFORMATION
APPLICABILITY KEY INDEX

	<u>TA</u>	<u>TB</u>
NAME	X	X
APGF	X	X
BMDR		X
BMDS		X
AAZE	X	
AAUB	X	
ABHP	X	X
BMDT	X	X
FEAT	AR	AR
TEST	AR	AR
SPCL	AR	AR
ZZZK	AR	AR
ZZZT	AR	AR
ZZZW	AR	AR
ZZZX	AR	AR
ZZZY	AR	AR
CRTL	AR	AR
PRPY	AR	AR
ELRN	AR	AR
ELCD	AR	AR
AFJK	AR	AR
SUPP	AR	AR
ZZZP	AR	AR
ZZZV	AR	AR
CXCY	AR	AR

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UA

NAME	X
APGF	X
BMDW	AR
BMDX	AR
BMFC	AR
ABHP	AR
ADAV	AR
ABMK	AR
ADUM	AR
BMDY	AR
BMDZ	AR
BMFB	AR
BMFD	AR
BMFF	AR
BMFG	AR
ABMZ	X
ABRY	X
ASWL	X
AQZL	AR
AQPQ	AR
BMFH	X
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
AFJK	AR
SUPP	AR
ZZZP	AR
ZZZV	AR
CXCY	AR

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VA

NAME	X
BJWN	AR
ABHP	AR
ABMK	AR
ABKW	X
BMFJ	AR
ABMZ	AR
AQZL	AR
BMFK	AR
BMFL	AR
APHE	X
ASYJ	X
BBXF	X
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
AFJK	AR
SUPP	AR
ZZZP	AR
ZZZV	AR
CXCY	AR

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APPLICABILITY KEY INDEX

WA

NAME	X
ABHP	X
ABMZ	AR
ABGL	AR
BMFM	X
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
AFJK	AR
SUPP	AR
ZZZP	AR
ZZZV	AR
CXCY	AR

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FIG T182
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[Page Break]

Body

SECTION: A

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code appearing in the Index of Approved Item Names. (e.g., NAMED05424*)

ALL

AQPP	D	SHANK TYPE
------	---	------------

Definition: INDICATES THE TYPE OF SHANK.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AQPPDAQ*; AQPPDAR\$DAJ*)

<u>REPLY CODE</u>	<u>REPLY (AH09)</u>
AR	AMERICAN STANDARD TAPER
AJ	BROWN AND SHARPE TAPER
AQ	MASTER TAPER
AG	MORSE TAPER
AP	STANDARD MILLING MACHINE TAPER
AH	STRAIGHT
AS	VAN NORMAN TAPER

NOTE FOR MRCS AAZE AND AQPQ: IF REPLY CODE AH IS ENTERED FOR MRC AQPP, REPLY TO MRC AAZE. IF OTHER THAN REPLY AH IS ENTERED FOR MRC AQPP, REPLY TO MRC AQPQ.

ALL* (See Note Above)

AAZE	J	SHANK DIAMETER
------	---	----------------

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE BODY OF THE SHANK, AND TERMINATES AT THE CIRCUMFERENCE.

APP
Key

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AAZEJAA0.500*; AAZEJLA12.7*; AAZEJAB0.495\$\$JAC0.505*)

MILLIMETERSMAXIMUM

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ADFNDH*; ADFNDH\$DJ*)

THREADED MALE

44

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
	ABUJ	A	THREAD SIZE
Definition: DESIGNATES THE THREAD DIAMETER AND NUMBER OF THREADS PER SPECIFIC MEASUREMENT SCALE.			
Reply Instructions: Enter the applicable thread diameter, followed by a dash and the number of threads per specific measurement scale.			
(e.g., ABUJA0.250-20*;			
ABUJA0.250-20\$A0.350-30*; ABJUA0.250-30\$\$A0.350-30*)			

AA*, AC*, AD* (See Note Preceding MRC ABUJ)

AJYP	D	SCREW THREAD SERIES DESIGNATOR
Definition: A DESIGNATION DISTINGUISHING ONE GROUP OF SCREW THREAD DIAMETER-PITCH COMBINATIONS FROM ANOTHER BY THE NUMBER OF THREADS PER MEASUREMENT SCALE FOR A SPECIFIC DIAMETER.		
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AJYPDBW*; AJYPDNC\$DNF*; AJYP\$\$DNS*)		
<u>REPLY CODE</u>		<u>REPLY (AH06)</u>
BW		BSW
NC		UNC
NF		UNF
NS		UNS

AA*, AC*, AD* (See Note Preceding MRC ABUJ)

AAJF	D	THREAD DIRECTION
Definition: THE DIRECTION OF THE THREAD WHEN VIEWED AXIALLY. A RIGHT-HAND THREAD WINDS IN A CLOCKWISE DIRECTION WHILE A LEFT-HAND THREAD WINDS IN A COUNTER-CLOCKWISE DIRECTION.		
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AAJFDR*; AAJFDR\$DL*; AAJDL\$\$DR*)		
<u>REPLY CODE</u>		<u>REPLY (AA38)</u>
L		LEFT-HAND
R		RIGHT-HAND

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

AA

BBQT J END MILL BEARING DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE INSIDE CENTER OF AN END MILL BEARING, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BBQTJAA1.000*; BBQTJLA25.4*; BBQTJAB0.990\$\$JAC1.010*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

AA

BBQW D CUTTER DIRECTION FOR WHICH DESIGNED

Definition: THE DIRECTION OF THE CUTTER FOR WHICH THE ITEM IS DESIGNED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BBQWDR*; BBQWDL\$DR*)

REPLY CODE

L

R

REPLY (AA38)

LEFT-HAND

RIGHT-HAND

AB

BBQX A ARBOR SIZE

FIIG T
Section Parts

APP									
Key	MRC		Mode Code						Requirements

Definition: THE ALPHA AND/OR NUMERIC SIZE DESIGNATION BY WHICH THE ARBOR IS IDENTIFIED.

Reply Instructions: Enter the size. (e.g., BBQXA7*; BBQXA7\$A8*)

AB

BBQY J CAPACITY ACCOMMODATED

Definition: A MEASUREMENT OF THE CAPACITY THE ITEM WILL ACCOMMODATE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BBQYJBCA1.313*; BBQYJHCA33.3*; BBQYJBCB1.310\$\$JBCC1.316*)

Table 1

REPLY CODE

BC

HC

REPLY (AG67)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

AB

ABHP J OVERALL LENGTH

Definition: THE DIMENSION MEASURED ALONG THE LONGITUDINAL AXIS WITH TERMINATED POINTS AT THE EXTREME ENDS OF THE ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABHPJAA11.000*; ABHPJLA279.4*; ABHPJAB10.995\$\$JAC11.005*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
		A	NOMINAL
		B	MINIMUM
		C	MAXIMUM

AC

BBQZ J TOOL HEAD HOLE WIDTH ACROSS FLATS

Definition: THE DISTANCE FROM ONE FLAT TO THE OPPOSITE FLAT OF A TOOL HEAD HOLE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BBQZJAA0.750*; BBQZJLA19.1*; BBQZJAB0.750\$\$JAC0.765*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

AD

BBRB J END DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE END OF THE ITEM, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BBRBJAA0.875*; BBRBJLA22.2*; BBRBJAB0.874\$\$JAC0.876*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

AD

BCBZ J END SHOULDER TO NUT LENGTH

Definition: A MEASUREMENT OF THE LONGEST DIMENSION OF THE ITEM FROM THE END SHOULDER TO THE NUT, IN DISTINCTION FROM WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BCBZJAA8.000*; BCBZJLA203.2*; BCBZJAB7.990\$\$JAC8.010*)

Table 1

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

AD

BCCB D END PILOT

Definition: AN INDICATION OF WHETHER OR NOT AN END PILOT IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BCCBDB*; BCCBDB\$DC*)

REPLY CODE

B
C

REPLY (AA49)

INCLUDED
NOT INCLUDED

FIIG T
Section Parts

APP	Key	MRC	Mode Code	Requirements
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NOTE FOR MRC AAVL: IF REPLY CODE B IS ENTERED FOR MRC BCCB, REPLY TO MRC AAVL.

AD* (See Note Above)

AAVL	J	PILOT DIAMETER
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Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THAT PORTION USED TO GUIDE THE ITEM, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AAVLJAA0.500*; AAVLJLA12.7*; AAVLJAB0.499\$\$JAC0.501*)

Table 1

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

AD

BCCC	D	CLAMP NUT
------	---	-----------

Definition: AN INDICATION OF WHETHER OR NOT A CLAMP NUT IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BCCCDDB*; BCCCDDB\$DC*)

REPLY CODE

B
C

REPLY (AA49)

INCLUDED
NOT INCLUDED

AD

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
	BCCD	D	SPACER
Definition: AN INDICATION OF WHETHER OR NOT A SPACER(S) IS INCLUDED.			
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BCCDDB*; BCCDDB\$DC*)			
		<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
		B	INCLUDED
		C	NOT INCLUDED

AD

BCCF	D	BEARING SLEEVE
Definition: AN INDICATION OF WHETHER OR NOT A BEARING SLEEVE(S) IS INCLUDED.		
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BCCFDB*; BCCFDB\$DC*)		
	<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
	B	INCLUDED
	C	NOT INCLUDED

NOTE FOR MRCS NMBR AND ABKV: IF REPLY CODE B IS ENTERED FOR MRC BCCF, REPLY TO MRCS NMBR AND ABKV.

AD* (See Note Above)

NMBR	A	QUANTITY
Definition: A NUMERIC VALUE WHICH REPRESENTS A POSITIVE WHOLE VALUE WITHOUT REGARD TO ANY UNIT OF MEASURE.		
Reply Instructions: Enter the quantity. (e.g., NMBRA1*; NMBRA1\$A2*)		

AD* (See Note Preceding MRC NMBR)

ABKV	J	OUTSIDE DIAMETER
------	---	------------------

FIIG T
Section Parts

APP									
Key	MRC		Mode Code		Requirements				

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE ITEM, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABKVJAA1.875*; ABKVJLA47.6*; ABKVJAB0.874\$\$\$JAC0.876*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

FIIG T
Section Parts

SECTION: B

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
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Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code appearing in the Index of Approved Item Names. (e.g., NAMED22217*)

ALL

ALBY	D	USAGE DESIGN
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Definition: INDICATES THE DESIGNED USE OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ALBYDAHQ*; ALBYDAHQ\$DAHR*)

<u>REPLY CODE</u>	<u>REPLY (AH21)</u>
AHQ	DRUM W/BALL BEARING RACE
AHS	DRUM W/O BEARING
AHR	DRUM W/TAPERED ROLLER BEARING CUP

NOTE FOR MRCS AQWR, BCCG, AQYR, BCCH, BCCJ, AND BCCK: IF REPLY CODE AHR IS ENTERED FOR MRC ALBY, REPLY TO MRCS AQWR, BCCG, AND AQYR. IF REPLY CODE AHQ IS ENTERED FOR MRC ALBY, REPLY TO MRCS BCCH, BCCG, AND AQYR. IF REPLY CODE AHS IS ENTERED FOR MRC ALBY, REPLY TO MRCS AQYR, BCCG, BCCJ, AND BCCK.

ALL* (See Note Above)

AQWR	J	SIZE RANGE
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Definition: DESIGNATES THE MINIMUM AND MAXIMUM SIZE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric values separated by a slash. Precede each value with the letter P. (e.g., AQWRJAP0.688/P1.500*; AQWRJLP17.7/P38.100*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
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ALL* (See Note Preceding MRC AQWR)

BCCG	J	ARBOR HOLE THICKNESS
------	---	----------------------

Definition: A MEASUREMENT OF THE SMALLEST DIMENSION OF AN ARBOR HOLE, IN DISTINCTION FROM LENGTH OR WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BCCGJAA1.500*; BCCGJLA38.1*; BCCGJAB1.495\$\$JAC1.505*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

BA* (See Note Preceding MRC AQWR)

AQYR	J	ARBOR HOLE DIAMETER
------	---	---------------------

Definition: THE LENGTH OF STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE ARBOR HOLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AQYRJAA1.250*; AQYRJLA31.8*; AQYRJAB1.249\$\$JAC1.251*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

REPLY (AC20)

NOMINAL

MINIMUM

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
	C		MAXIMUM

BA* (See Note Preceding MRC AQWR)

BCCH J END OUTSIDE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE END, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. Enter a reply for each different size end using AND (\$\$) Coding. (e.g., BCCHJAA1.125*; BCCHJLA28.5*; BCCHJAB1.125\$\$JAC1.750*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

BA* (See Note Preceding MRC AQWR)

BCCJ J STEP OUTSIDE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE STEP, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BCCJJAA2.000*; BCCJJLA50.8*; BCCJJAB1.990\$\$JAC2.010*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
<hr/>			
		<u>Table 2</u>	
		<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
		A	NOMINAL
		B	MINIMUM
		C	MAXIMUM

BA* (See Note Preceding MRC AQWR)

BCCK D STUD

Definition: AN INDICATION OF WHETHER OR NOT A STUD IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BCCKDB*; BCCKDB\$DC*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

NOTE FOR MRCS BCCL, BCCM, BCCN, ABVK, AJYP, AND AAJF: IF REPLY CODE B IS ENTERED FOR MRC BCCK, REPLY TO MRCS BCCL, BCCM, BCCN, ABVK, AJYP, AND AAJF.

BA* (See Note Above)

BCCL A STUD QUANTITY

Definition: THE NUMBER OF STUD(S) PROVIDED.

Reply Instructions: Enter the quantity. (e.g., BCCLA6*; BCCLA6\$A7*)

BA* (See Note Preceding MRC BCCL)

BCCM J STUD CIRCLE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A STUD CIRCLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BCCMJAA6.000*; BCCMJLA152.4*; BCCMJAB5.990\$\$JAC6.010*)

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
<hr/>			
<u>Table 1</u>			
		<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
		A	INCHES
		L	MILLIMETERS
<u>Table 2</u>			
		<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
		A	NOMINAL
		B	MINIMUM
		C	MAXIMUM

BA* (See Note Preceding MRC BCCL)

BCCN G STUD SPACING

Definition: THE SPACING BETWEEN THE STUD CENTERS.

Reply Instructions: Enter the reply in clear text. (e.g., BCCNGSTUDS SPACED 60 DEG, 60 DEG, 60 DEG, 55 DEG, AND 65 DEG APART*)

NOTE FOR MRCS ABVK, AJYP, AND AAJF: ENTER A REPLY FOR EACH STUD USING AND/OR (\$/\$) CODING.

BA* (See Notes Above and Preceding MRC BCCL)

ABVK A THREAD SIZE DESIGNATOR

Definition: DESIGNATES THE THREAD DIAMETER AND NUMBER OF THREADS PER SPECIFIC MEASUREMENT SCALE.

Reply Instructions: Enter the applicable thread diameter, followed by a dash and the number of threads. (e.g., ABVKA0.250-18*; ABVKA0.250-18\$A0.350-18*; ABVKA0.250-18\$\$A0.350-18*)

(e.g., ABVKA0.250-18*)

BA* (See Notes Preceding MRCs BCCL and ABVK)

AJYP D SCREW THREAD SERIES DESIGNATOR

FIIG T
Section Parts

APP									
Key	MRC		Mode Code						Requirements

Definition: A DESIGNATION DISTINGUISHING ONE GROUP OF SCREW THREAD DIAMETER-PITCH COMBINATIONS FROM ANOTHER BY THE NUMBER OF THREADS PER MEASUREMENT SCALE FOR A SPECIFIC DIAMETER.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AJYPDNS*; AJYPDNC\$DNF*; AJYPDNC\$\$DNS*)

<u>REPLY CODE</u>	<u>REPLY (AH06)</u>
NC	UNC
NF	UNF
NS	UNS

BA* (See Notes Preceding MRCs BCCL and ABVK)

AAJF									
			D						THREAD DIRECTION

Definition: THE DIRECTION OF THE THREAD WHEN VIEWED AXIALLY. A RIGHT-HAND THREAD WINDS IN A CLOCKWISE DIRECTION WHILE A LEFT-HAND THREAD WINDS IN A COUNTER-CLOCKWISE DIRECTION.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AAJFDR*; AAJFDR\$DL*; AAJFDR\$\$DL*)

<u>REPLY CODE</u>	<u>REPLY (AA38)</u>
L	LEFT-HAND
R	RIGHT-HAND

SECTION: C

APP

Key MRC Mode Code Requirements

ALL

NAME D ITEM NAME

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code appearing in the Index of Approved Item Names (e.g., NAMED05263*)

ALL

ASWL D SHANK SHAPE

Definition: THE PHYSICAL CONFIGURATION OF THE SHANK.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ASWLDSQ*; ASWLDMZ\$DNB*)

<u>REPLY CODE</u>	<u>REPLY (AD07)</u>
MZ	FLATTED ONE SIDE
NC	FLATTED THREE SIDES
NB	FLATTED TWO SIDES
BU	HEXAGON
RD	ROUND
RP	ROUND TAPERED
SQ	SQUARE
ND	SQUARE TAPERED

NOTE FOR MRCS ABMZ, AAZR, AGJR, ASDB, BCCP, BCCQ, AND BCCR: IF REPLY CODE RD IS ENTERED FOR MRC ASWL, REPLY TO MRC ABMZ. IF REPLY CODE RP IS ENTERED FOR MRC ASWL, REPLY TO MRCS AAZR AND AGJR. IF REPLY CODE SQ IS ENTERED FOR MRC ASWL, REPLY TO MRC ASDB. IF REPLY CODE ND IS ENTERED FOR MRC ASWL, REPLY TO MRCS BCCP AND BCCQ. IF REPLY CODE MZ IS ENTERED FOR MRC ASWL, REPLY TO MRCS ABMZ AND BCCR. IF REPLY CODE NB IS ENTERED FOR MRC ASWL, REPLY TO MRCS ABMZ AND ASDB. IF REPLY CODE NC IS ENTERED FOR MRC ASWL, REPLY TO MRCS ABMZ AND BCCR. IF REPLY CODE BU IS ENTERED FOR MRC ASWL, REPLY TO MRC ASDB.

ALL* (See Note Above)

ABMZ J DIAMETER

FIIG T
Section Parts

APP			
Key	MRC	Mode Code	Requirements

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A CIRCULAR FIGURE OR BODY, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABMZJAA0.500*; ABMZJLA12.7*; ABMZJAB0.499\$\$JAC0.501*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC ABMZ)

AAZR J MAJOR DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE LARGEST DIAMETER OF THE ITEM, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AAZRJAA1.500*; AAZRJLA38.1*; AAZRJAB1.499\$\$JAC1.501*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

FIIG T
Section Parts

APP			
Key	MRC	Mode Code	Requirements

ALL* (See Note Preceding MRC ABMZ)

AGJR J MINOR DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE SMALLEST DIAMETER OF THE ITEM, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AGJRJAA0.750*; AGJRJLA19.1*; AGJRJAB0.749\$\$JAC0.751*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC ABMZ)

ASDB J WIDTH ACROSS FLATS

Definition: THE SHORTEST STRAIGHT LINE BETWEEN FLATS, PERPENDICULAR TO THE HEIGHT.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ASDBJAA0.500*; ASDBJLA12.7*; ASDBJAB0.490\$\$JAC0.510*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
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ALL* (See Note Preceding MRC ABMZ)

BCCP J MAJOR WIDTH ACROSS FLATS

Definition: A MEASUREMENT OF THE LARGEST DISTANCE FROM ONE FLAT TO THE OPPOSITE FLAT, IN DISTINCTION FROM HEIGHT.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BCCPJAA0.750*; BCCPJLA19.1*; BCCPJAB0.740\$\$JAC0.760*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC ABMZ)

BCCQ J MINOR WIDTH ACROSS FLATS

Definition: A MEASUREMENT OF THE SMALLEST DISTANCE FROM ONE FLAT TO THE OPPOSITE FLAT, IN DISTINCTION FROM HEIGHT.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BCCQJAA0.500*; BCCQJLA12.7*; BCCQJAB0.490\$\$JAC0.510*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

FIIG T
Section Parts

APP			
Key	MRC	Mode Code	Requirements

ALL* (See Note Preceding MRC ABMZ)

BCCR	J	PERPENDICULAR DISTANCE FROM CENTER OF FLAT TO OPPOSITE SIDE
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Definition: THE DISTANCE FROM THE CENTER OF A FLAT TO THE PERIPHERY OF THE OPPOSITE SIDE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BCCRJAA0.500*; BCCRJLA12.7*; BCCRJAB0.490\$\$JAC0.510*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL

BCCS	J	SAW SIZE RANGE ACCOMMODATED
------	---	-----------------------------

Definition: THE MEASUREMENT OF THE MINIMUM TO THE MAXIMUM SAW SIZE THE ITEM WILL ACCOMMODATE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric values, separated by a slash. Precede each value with the letter P. (e.g., BCCSJAP1.250/P4.500*; BCCSJLP31.8/P.114.3*)

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

ALL*

FIG T
Section Parts

APP
Key

MRC

Mode Code

Requirements

AAVL J PILOT DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THAT PORTION USED TO GUIDE THE ITEM, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AAVLJAA0.250*; AAVLJLA6.3*; AAVLJAB0.248\$\$JAC0.250*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL*

BCCT J PILOT DRILL DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A PILOT DRILL, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BCCTJAA0.250*; BCCTJLA6.3*; BCCTJAB0.249\$\$JAC0.250*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
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FIIG T
Section Parts

SECTION: D

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the Index of Approved Item Names. (e.g., NAMED05089*)

ALL

APGF	D	DESIGN TYPE
------	---	-------------

Definition: INDICATES THE DESIGN TYPE OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., APGFDAQD*; APGFDAQD\$DAQE*)

<u>REPLY CODE</u>	<u>REPLY (AK54)</u>
AQD	DEAD
AQE	LIVE

NOTE FOR MRC ACSK: IF REPLY CODE AQE IS ENTERED FOR MRC APGF, REPLY TO MRC ACSK.

ALL* (See Note Above)

ACSK	D	BEARING TYPE
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Definition: INDICATES THE TYPE OF BEARING(S) FURNISHED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ACSKDF*; ACSKDF\$DM*)

<u>REPLY CODE</u>	<u>REPLY (AB81)</u>
F	BALL
M	PLAIN (Steel on Steel)
D	ROLLER

DA

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
	BCCW	D	INSERTED POINT ACCOMMODATION
Definition: AN INDICATION OF WHETHER OR NOT AN INSERTED POINT ACCOMMODATION IS PROVIDED.			
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BCCWDB*; BCCWDB\$DC*)			
		<u>REPLY CODE</u>	<u>REPLY (AB22)</u>
		C	NOT PROVIDED
		B	PROVIDED

NOTE FOR MRCS BCCX AND BNLL: IF REPLY CODE B IS ENTERED FOR MRC BCCW, REPLY TO MRCS BCCX AND BNLL.

ALL* (See Note Above)

BCCX D POINT REPLACEABILITY

Definition: AN INDICATION OF WHETHER OR NOT THE POINT IS REPLACEABLE.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BCCXDB*; BCCXDB\$DC*)

<u>REPLY CODE</u>	<u>REPLY (AG84)</u>
C	NONREPLACEABLE
B	REPLACEABLE

NOTE FOR MRCS BCDB AND BNLK: IF REPLY CODE B IS ENTERED FOR MRC BCCX, REPLY TO MRCS BCDB AND BNLK.

ALL* (See Note Above)

BCDB D POINT SHANK SHAPE

Definition: THE PHYSICAL CONFIGURATION OF THE POINT SHANK.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BCDBDBK*; BCDBDBK\$DTA*)

<u>REPLY CODE</u>	<u>REPLY (AD07)</u>
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FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		BK TA	STRAIGHT TAPERED

ALL* (See Note Preceding MRC BCDB)

BNLK G POINT SHANK SIZE

Definition: DESIGNATES THE SIZE BY WHICH THE POINT SHANK IS IDENTIFIED.

Reply Instructions: Enter the reply in clear text. (e.g., BNKGNL 3 MORSE TAPER*)

ALL* (See Note Preceding MRC BCCX)

BNLL J POINT MAXIMUM DIAMETER

Definition: THE MAXIMUM LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE POINT, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., BNLLJA0.750*; BNLLJL19.1*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

ALL

ALBY D USAGE DESIGN

Definition: INDICATES THE DESIGNED USE OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ALBYDAHT*; ALBYDAHT\$DAHW*)

<u>REPLY CODE</u>	<u>REPLY (AH21)</u>
AHT	HEADSTOCK
AHW	TAILSTOCK

ALL

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
	BNDC	J	HEAD TYPE AND QUANTITY

Definition: INDICATES THE TYPE AND NUMBER OF HEAD(S).

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., BNDCJBWW1*; BNDCJBWW1\$\$JBWX2*; BNDCJBWW1\$JBWX2*)

<u>REPLY CODE</u>	<u>REPLY (AK54)</u>
BWP	ENLARGED MALE POINT
BWQ	FEMALE POINT
BWR	FEMALE POINT W/RAISED LANDS
BWS	FLAT DISK
BWT	HALF MALE POINT
BWW	MALE POINT
BWX	PIPE POINT
BWY	SPUR
BWZ	VEE CROTCH

NOTE FOR MRC BCRF: IF REPLY CODE BWX IS ENTERED FOR MRC BNDC, REPLY TO MRC BCRF.

ALL* (See Note Above)

BCRF	J	PIPE SIZE RANGE ACCOMMODATED
------	---	------------------------------

Definition: A MEASUREMENT OF THE MINIMUM TO MAXIMUM PIPE SIZE THE ITEM WILL ACCOMMODATE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric values, separated by a slash. Precede each value with the letter P. (e.g., BCRFJAP1.000/P3.000*; BCRFJLP25.4/P76.2*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

ALL

AQQT	D	TIP MATERIAL
------	---	--------------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE TIP IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

FIIG T
Section Parts

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., AQQTDNL0000*; AQQTDNL0000\$SDST0000*; AQQTDNL0000\$DST0000*)

ALL

ASWL	D	SHANK SHAPE
------	---	-------------

Definition: THE PHYSICAL CONFIGURATION OF THE SHANK.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ASWLDBK*; ASWLDBK\$DTA*)

REPLY CODE

BK

TA

REPLY (AD07)

STRAIGHT

TAPERED

NOTE FOR MRCS AQZL, AQPQ, AND ABMZ: IF REPLY CODE TA IS ENTERED FOR MRC ASWL, REPLY TO MRCS AQZL AND AQPQ. IF REPLY CODE BK IS ENTERED FOR MRC ASWL, REPLY TO MRC ABMZ.

ALL* (See Note Above)

AQZL	D	TAPER SERIES
------	---	--------------

Definition: AN INDUSTRIAL DESIGNATOR USED TO INDICATE THE TAPER.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AQZLDAB*; AQZLDAB\$DAX*)

REPLY CODE

AD

AC

AB

AX

REPLY (AH09)

BROWN AND SHARPE

JARNO

MORSE

SPECIAL

ALL* (See Note Preceding MRC AQZL)

AQPQ	A	SHANK TAPER NUMBER
------	---	--------------------

Definition: AN INDICATION OF THE NUMBER OF THE SHANK TAPER.

Reply Instructions: Enter the number. (e.g., AQPQA4*; AQPQA4\$A5*)

FIIG T
Section Parts

APP	MRC	Mode Code	Requirements
Key			

ALL* (See Note Preceding MRC AQZL)

ABMZ J DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A CIRCULAR FIGURE OR BODY, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABMZJAA0.875*; ABMZJLA22.2*; ABMZJAB0.874\$\$JAC0.876*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL

ABHP J OVERALL LENGTH

Definition: THE DIMENSION MEASURED ALONG THE LONGITUDINAL AXIS WITH TERMINATED POINTS AT THE EXTREME ENDS OF THE ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABHPJAA6.500*; ABHPJLA165.1*; ABHPJAB6.640\$\$JAC6.510*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

ALL*

AFJF	D	SPECIFIC USE
------	---	--------------

Definition: THE REQUIRED PURPOSE OR APPLICATION FOR WHICH THE ITEM IS DESIGNED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AFJFDHR*; AFJFDHR\$\$DHS*; AFJFDHR\$DHS*)

<u>REPLY CODE</u>	<u>REPLY (AD34)</u>
HR	CYLINDER GRINDER
HS	LATHE

SECTION: E

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code appearing in the Index of Approved Item Names (e.g., NAMED17732*)

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDFEA000*; MATLDFEA000\$\$DSTC000*; MATLDFEA000\$DST0000*)

ALL

BCRG	D	SLOT TYPE
------	---	-----------

Definition: INDICATES THE TYPE OF SLOT PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below. Enter a reply for each different type using AND/OR (\$\$/ \$) Coding. (e.g., BCRGDEZ*; BCRGDEZ\$DBR*; BCRGDEZ\$\$DBR*)

<u>REPLY CODE</u>	<u>REPLY (AG25)</u>
EZ	CLAMP
FA	DOG
BR	JAW

ALL

ATPP	A	SLOT QUANTITY
------	---	---------------

Definition: THE NUMBER OF SLOTS IN THE ITEM.

FIIG T
Section Parts

APP									
Key	MRC		Mode Code						Requirements

Reply Instructions: Enter the quantity. Enter the multiple replies in the same sequence as MRC BCRG, using AND/OR (\$\$/ \$) Coding. (e.g., ATPPA4*; ATPPA4\$A3*; ATPPA2\$\$A4*)

ALL

ABKV	J								OUTSIDE DIAMETER
------	---	--	--	--	--	--	--	--	------------------

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE ITEM, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABKVJAA10.000*; ABKVJLA254.0*; ABKVJAB9.990\$\$JAC10.010*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL*

BCNX	D								MOUNTING TYPE FOR WHICH DESIGNED
------	---	--	--	--	--	--	--	--	----------------------------------

Definition: INDICATES THE TYPE OF MOUNTING FOR WHICH THE ITEM IS DESIGNED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BCNXDARH*; BCNXDARH\$\$DARJ*; BCNXDARH\$DARJ*)

REPLY CODE

ARH

ARJ

REPLY (AM39)

ASA SPINDLE NOSE

THREADED SPINDLE NOSE

FIIG T
Section Parts

APP									
Key	MRC		Mode Code						Requirements

NOTE FOR MRCS BCRX, BCSF, BCRY, AASA, BCRZ, BCSB, AJYQ, AND CQQR: IF REPLY CODE ARH IS ENTERED FOR MRC BCNX, REPLY TO MRCS BCRX AND BCSF. IF REPLY CODE ARJ IS ENTERED FOR MRC BCNX, REPLY TO MRCS BCRY, AASA, BCRZ, BCSB, AJYQ AND CQQR AS APPLICABLE.

ALL* (See Note Above)

BCRX	D	ASA SPINDLE NOSE TYPE DESIGNATION
------	---	-----------------------------------

Definition: THE AMERICAN STANDARD ASSOCIATION DESIGNATION WHICH IDENTIFIES THE NOSE TYPE OF THE SPINDLE USED WITH THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BCRXDASJ*; BCRXDASJ\$DASK*; BCRXDASJ\$DASK*)

<u>REPLY CODE</u>	<u>REPLY (AK54)</u>
ASH	A1 (nose has tapped holes on both the inner bolt circle and outer bolt circle. Sizes range from 2 inch to 28 inch diameter)
ASJ	A2 (nose has tapped holes on the outer bolt circle but has no holes on inner bolt circle. Sizes range from 2 inch to 28 inch diameter)
ASK	B1 (nose has drilled holes on the outer bolt circle and tapped holes on the inner bolt circle. Sizes range from 5 inch to 28 inch diameter)
ASL	B2 (nose has drilled holes on outer bolt circle but has no holes on the inner bolt circle. Sizes range from 5 inch to 28 inch diameter)
ASM	D1 (nose is drilled for cam locking chuck. Sizes range from 2 inch to 20 inch diameter)
ASN	L (nose is tapered and fitted with key)

ALL* (See Note Preceding MRC BCRX)

BCSF	G	ASA SPINDLE NAME
------	---	------------------

Definition: THE AMERICAN STANDARD ASSOCIATION (ASA) NAME BY WHICH THE SPINDLE IS IDENTIFIED.

Reply Instructions: Enter the reply in clear text. (e.g., BCSFGL 3 NOSE*)

ALL* (See Note Preceding MRC BCRX)

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
	BCRY	J	THREADED SPINDLE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE THREADED SPINDLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BCRYJAA1.500*; BCRYJLA38.1*; BCRYJAB1.495\$\$JAC1.505*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC BCRX)

AASA	J	THREAD LENGTH
------	---	---------------

Definition: A MEASUREMENT OF THE EXTENT OF THREADS, INCLUDING INCOMPLETE THREADS, ALONG A LINE PARALLEL TO THE LONGITUDINAL AXIS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AASAJAA0.688*; AASAJLA17.4*; AASAJAB0.680\$\$JAC0.695*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

FIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

ALL* (See Note Preceding MRC BCRX)

BCRZ J CENTERING SHOULDER DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE CENTERING SHOULDER, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BCRZJAA1.509*; BCRZJLA38.2*; BCRZJAB1.504\$\$JAC1.614*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC BCRX)

BCSB J SPINDLE NOSE LENGTH

Definition: A MEASUREMENT OF THE LONGEST DIMENSION OF THE SPINDLE NOSE, IN DISTINCTION FROM WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BCSBJAA0.875*; BCSBJLA22.2*; BCSBJAB0.870\$\$JAC0.880*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

REPLY (AC20)

NOMINAL

MINIMUM

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
	C		MAXIMUM

ALL* (See Note Preceding MRC BCRX)

AJYQ B SCREW THREAD QUANTITY PER INCH

Definition: THE NUMBER OF SCREW THREADS ON THE ITEM PER LINEAR INCH MEASURED ON A LINE PARALLEL TO THE THREAD AXIS, INCLUDING INCOMPLETE THREADS.

Reply Instructions: Enter the numeric value. (e.g., AJYQB16.500*)

ALL* (See Note Preceding MRC BCRX)

CQQR B THREAD PITCH IN MILLIMETERS

Definition: A MEASUREMENT OF DISTANCE BETWEEN CORRESPONDING POINTS ON TWO ADJACENT THREADS MEASURED PARALLEL TO THE THREAD AXIS EXPRESSED IN MILLIMETERS.

Reply Instructions: Enter the numeric value. (e.g., CQQRB1.25*)

ALL

BCSC D MOUNTING ADAPTER

Definition: AN INDICATION OF WHETHER OR NOT A MOUNTING ADAPTER IS REQUIRED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BCSCDC*; BCSCDB\$DC*)

<u>REPLY CODE</u>	<u>REPLY (AE40)</u>
C	NOT REQUIRED
B	REQUIRED

NOTE FOR MRCS ABMD AND ABMH: IF REPLY CODE B IS ENTERED FOR MRC BCSC, REPLY TO MRCS ABMD AND ABMH.

ALL* (See Note Above)

ABMD J RECESS DIAMETER

FIIG T
Section Parts

APP									
Key	MRC		Mode Code						Requirements

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE RECESS, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABMDJAA4.187*; ABMDJLA106.2*; ABMDJAB4.185\$\$JAC4.189*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC ABMD)

ABMH									RECESS DEPTH
------	--	--	--	--	--	--	--	--	--------------

Definition: A MEASUREMENT BETWEEN SPECIFIED POINTS ON THE RECESS IN DISTINCTION FROM HEIGHT.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABMHJAA0.625*; ABMHJLA16.1*; ABMHJAB0.620\$\$JAC0.630*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL*

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
	AKYD	G	ACCESSORY COMPONENTS AND QUANTITY

Definition: THE NAME AND NUMBER OF PARTS SUPPLIED WITH THE ITEM
WHICH MAY BE REQUIRED FOR APPLICATION.

Reply Instructions: Enter the reply in clear text. (e.g., AKYDGJAWS 3*)

FIIG T
Section Parts

SECTION: F

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code appearing in the Index of Approved Item Names. (e.g., NAMED05103*)

ALL

APGF	D	DESIGN TYPE
------	---	-------------

Definition: INDICATES THE DESIGN TYPE OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., APGFDAYG*; APGFDAYE\$DAYF*)

REPLY CODE

AYE
AYF
AYG

REPLY (AK54)

BENT TAIL
CLAMP BENT TAIL
STRAIGHT TAIL

ALL

BCSD	D	SCREW DESIGN
------	---	--------------

Definition: THE DESIGN OF THE SCREW.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BCSDDACN*; BCSDDANL\$DACN*)

REPLY CODE

ANL
ACN

REPLY (AK54)

DOUBLE
SINGLE

ALL

BCSG	D	SCREW TYPE
------	---	------------

Definition: INDICATES THE TYPE OF SCREW PROVIDED.

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BCSGDPP*; BCSGDPP\$DPQ*)

REPLY CODE

PP
PQ
PR
PS

REPLY (AE98)

HEADLESS
KNURLED HEAD
SOCKET HEAD
SQUARE HEAD

ALL

AXQD

J

CAPACITY

Definition: A MEASUREMENT OF THE CAPACITY OF AN ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AXQDJBC4.000*; AXQDJHC101.6*)

REPLY CODE

BC
HC

REPLY (AG67)

INCHES
MILLIMETERS

FIIG T
Section Parts

SECTION: G

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code appearing in the Index of Approved Item Names. (e.g., NAMED18011*)

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDCU0000*; MATLDFE0000\$DFEA000*; MATLDFE0000\$DFEA000*)

ALL

AZAH	D	SURFACE FEATURE
------	---	-----------------

Definition: A NARRATIVE EXPRESSION USED TO DEFINE THE SURFACE OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AZAHDG*; AZAHDG\$DH*)

REPLY CODE

H

G

REPLY (AD20)

DOUBLE

SINGLE

ALL*

ABRY	J	LENGTH
------	---	--------

Definition: A MEASUREMENT OF THE LONGEST DIMENSION OF ANY OBJECT, IN DISTINCTION FROM WIDTH.

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABRYJAA24.000*; ABRYJLA609.6*; ABRYJAB23.875\$\$JAC24.125*)

Table 1

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

ALL*

ABGL	J	WIDTH
------	---	-------

Definition: A MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF AN ITEM, IN DISTINCTION FROM THICKNESS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABGLJAA12.000*; ABGLJLA304.8*; ABGLJAB11.990\$\$JAC12.010*)

Table 1

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

ALL*

ABMZ	J	DIAMETER
------	---	----------

FIIG T
Section Parts

APP	MRC	Mode Code	Requirements
Key			

Definition: THE LENGTH OF A STRAIGHT LINE PASSES THROUGH THE CENTER OF A CIRCULAR FIGURE OR BODY, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABMZJAA18.000*; ABMZJLA457.2*; ABMZJAB17.995\$\$JAC18.005*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL

BQNW	J	LAP FLATNESS ACCURACY
------	---	-----------------------

Definition: A MEASUREMENT OF THE AMOUNT OF VARIANCE OF THE LAP.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BQNWJAA0.000025*; BQNWJLA0.000635*; BQNWJAB0.000024\$\$JAC0.000026*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL

BQNX	D	LAP GROOVE DESIGN
------	---	-------------------

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

Definition: THE DESIGN OF THE LAP GROOVE(S).

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BQNXDYF*; BQNXDYF\$DYG*)

<u>REPLY CODE</u>	<u>REPLY (AD07)</u>
YF	STRAIGHT-SIDED
YG	V-SHAPED

ALL*

BQNY	D	LAP GROOVING PATTERN
------	---	----------------------

Definition: THE OVERALL PATTERN OF THE LAP GROOVE(S).

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BQNYDSQ*; BQNYDBG\$DCD*)

<u>REPLY CODE</u>	<u>REPLY (AD07)</u>
BG	DIAMOND
CD	RADIAL
SQ	SQUARE

ALL

BJWB	D	STAND
------	---	-------

Definition: AN INDICATION OF WHETHER OR NOT A STAND IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BJWBDB*; BJWBDB\$DC*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

FIIG T
Section Parts

SECTION: H

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code appearing in the Index of Approved Item Names.. (e.g., NAMED05101*)

ALL

APQB	D	UNIT TYPE
------	---	-----------

Definition: INDICATES THE SPECIFIC TYPE OF UNIT.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., APQBDATW*; APQBDATW\$DATX*)

<u>REPLY CODE</u>	<u>REPLY (AK95)</u>
ATW	2-JAW KEY
ATX	3-JAW KEY
ATY	3-JAW KEYLESS
ATZ	4-JAW KEYLESS

ALL*

ACSK	D	BEARING TYPE
------	---	--------------

Definition: INDICATES THE TYPE OF BEARING(S) FURNISHED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ACSKDF*; ACSKDF\$DM*)

<u>REPLY CODE</u>	<u>REPLY (AB81)</u>
F	BALL
M	PLAIN

ALL

BJWC	D	ARBOR
------	---	-------

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BJCWDB*; BJCWDB\$DC*)

INCLUDED	NOT INCLUDED
----------	--------------

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ABSXDKP*; ABSXDKP\$DKQ*)

ARBOR HOLE
SHANK

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BDHDDAAG*; BDHDDAAE\$DAAF*)

AMERICAN STANDARD TAPER
GOODELL-PRATT STRAIGHT ROUND
HUDSON SURGICAL
JACOBS TAPER
MORSE TAPER
TAPERED
THREADED

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

ALL*

BJWD	G	ATTACHMENT SIZE DESIGNATION
------	---	-----------------------------

Definition: THE SIZE DESIGNATION BY WHICH THE ATTACHMENT IS IDENTIFIED.

Reply Instructions: Enter the reply in clear text.

(e.g., BJWDG3/4-16 NF*)

ALL

BJWF	J	TOOL SIZE ACCOMMODATED
------	---	------------------------

Definition: DESIGNATES THE TOOL SIZE THAT THE ITEM WILL ACCOMMODATE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BJWFJAA0.063*; BJWFJLA1.6*; BJWFJAB0.062\$\$JAC0.064*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL

AGLD	D	PERFORMANCE TYPE
------	---	------------------

Definition: INDICATES THE PERFORMANCE CAPABILITY OF THE ITEM OR COMPONENT.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AGLDDAK*; AGLDDAB\$DAF*)

REPLY CODE

AK

REPLY (AE89)

HEAVY DUTY

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		AB	LIGHT DUTY
		AF	MEDIUM DUTY

FIIG T
Section Parts

SECTION: J

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code appearing in the Index of Approved Item Names.. (e.g., NAMED05173*)

ALL

AAFZ	D	BODY MATERIAL
------	---	---------------

Definition: THE BASIC MATERIAL OF WHICH THE BODY IS FABRICATED.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., AAFZDFE0000*; AAFZDFE0000\$DFEA000*; AAFZDFE0000\$DFEA000*)

ALL

BMDG	J	MAXIMUM MATERIAL DIAMETER ACCOMMODATED
------	---	---

Definition: THE MAXIMUM LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE ACCOMMODATION FOR THE MATERIAL, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., BMDGJA8.000*; BMDGJL203.2*)

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

ALL

BJWG	A	JAW QUANTITY
------	---	--------------

Definition: THE NUMBER OF JAW(S) PROVIDED.

Reply Instructions: Enter the quantity. (e.g., BJWGA3*)

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

ALL

BJWH	D	REVERSIBLE JAW
------	---	----------------

Definition: AN INDICATION OF WHETHER OR NOT A REVERSIBLE JAW(S) IS PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BJWHDB*)

REPLY CODE

C
B

REPLY (AB22)

NOT PROVIDED
PROVIDED

ALL

BJWJ	D	WORK HOLDING LOCATION
------	---	-----------------------

Definition: INDICATES THE LOCATION AT WHICH THE WORK IS HELD BY THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BJWJDABY*)

REPLY CODE

ABY
ABX

REPLY (AJ91)

EXTERNAL
INTERNAL

ALL

BJWK	D	TWO-PIECE JAWS WITH REVERSIBLE TOPS
------	---	-------------------------------------

Definition: AN INDICATION OF WHETHER OR NOT TWO-PIECE JAWS WITH REVERSIBLE TOPS ARE INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BJWKDB*)

REPLY CODE

B
C

REPLY(AA49)

INCLUDED
NOT INCLUDED

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

ALL

ADYT	J	CENTER HOLE DIAMETER
------	---	----------------------

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE CENTER HOLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ADYTJAA2.000*; ADYTJLA50.8*; ADYTJAB1.995\$\$JAC2.005*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL

BJWL	D	OBSTRUCTED CENTER HOLE
------	---	------------------------

Definition: AN INDICATION OF WHETHER OR NOT AN OBSTRUCTED CENTER HOLE IS PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BJWLDC*; BJWLDB\$DC*)

REPLY CODE

C

B

REPLY (AB22)

NOT PROVIDED

PROVIDED

ALL*

BCNX	D	MOUNTING TYPE FOR WHICH DESIGNED
------	---	----------------------------------

FIIG T
Section Parts

APP			
Key	MRC	Mode Code	Requirements

Definition: INDICATES THE TYPE OF MOUNTING FOR WHICH THE ITEM IS DESIGNED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BCNXDARH*; BCNXDARH\$DARJ*)

<u>REPLY CODE</u>	<u>REPLY (AM39)</u>
ARH	ASA SPINDLE NOSE
ARJ	THREADED SPINDLE NOSE

NOTE FOR MRCS BCRX, BCSF, BCRY, AASA, BCRZ, BCSB, AND AJYQ: IF REPLY CODE ARH IS ENTERED FOR MRC BCNX, REPLY TO MRCS BCRX AND BCSF. IF REPLY CODE ARJ IS ENTERED FOR MRC BCNX, REPLY TO MRCS BCRY, AASA, BCRZ, BCSB, AND AJYQ.

ALL* (See Note Above)

BCRX	D	ASA SPINDLE NOSE TYPE DESIGNATION
------	---	-----------------------------------

Definition: THE AMERICAN STANDARD ASSOCIATION (ASA) DESIGNATION WHICH IDENTIFIES THE NOSE TYPE OF THE SPINDLE USED WITH THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BCRXDASH*; BCRXDASH\$DASJ*)

<u>REPLY CODE</u>	<u>REPLY (AK54)</u>
ASH	A1 (nose has tapped holes on both the inner bolt circle and outer bolt circle. Sizes range from 2 inch to 28 inch diameter)
ASJ	A2 (nose has tapped holes on the outer bolt circle but has no holes on inner bolt circle. Sizes range from 2 inch to 28 inch diameter)
ASK	B1 (nose has drilled holes on the outer bolt circle and tapped holes on the inner bolt circle. Sizes range from 5 inch to 28 inch diameter)
ASL	B2 (nose has drilled holes on outer bolt circle but has no holes on the inner bolt circle. Sizes range from 5 inch to 28 inch diameter)
ASM	D1 (nose is drilled for cam locking chuck. Size range from 2 inch to 20 inch diameter)
ASN	L (nose is tapered and fitted with key)

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

ALL* (See Note Preceding MRC BCRX)

BCSF	G	ASA SPINDLE NAME
------	---	------------------

Definition: THE AMERICAN STANDARD ASSOCIATION (ASA) NAME BY WHICH THE SPINDLE IS IDENTIFIED.

Reply Instructions: Enter the reply in clear text. (e.g., BCSFGL3 NOSE*)

ALL* (See Note Preceding MRC BCRX)

BCRY	J	THREADED SPINDLE DIAMETER
------	---	---------------------------

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE THREADED SPINDLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BCRYJAA1.500*; BCRYJLA38.1*; BCRYJAB1.498\$\$JAC1.502*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC BCRX)

AASA	J	THREAD LENGTH
------	---	---------------

Definition: A MEASUREMENT OF THE EXTENT OF THREADS, INCLUDING INCOMPLETE THREADS, ALONG A LINE PARALLEL TO THE LONGITUDINAL AXIS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AASAJAA0.688*; AASAJLA17.4*; AASAJAB0.683\$\$JAC0.693*)

Table 1

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
		A	INCHES
		L	MILLIMETERS
		<u>Table 2</u> <u>REPLY CODE</u>	<u>REPLY (AC20)</u>
		A	NOMINAL
		B	MINIMUM
		C	MAXIMUM

ALL* (See Note Preceding MRC BCRX)

BCRZ J CENTERING SHOULDER DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE CENTERING SHOULDER, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BCRZJAA1.509*; BCRZJLA38.2*; BCRZJAB1.508\$\$JAC1.510*)

<u>Table 1</u> <u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>Table 2</u> <u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL* (See Note Preceding MRC BCRX)

BCSB J SPINDLE NOSE LENGTH

Definition: A MEASUREMENT OF THE LONGEST DIMENSION OF THE SPINDLE NOSE, IN DISTINCTION FROM WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BCSBJAA0.875*; BCSBJLA22.2*; BCSBJAB0.870\$\$JAC0.880*)

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
<hr/>			
Table 1			
		<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
		A	INCHES
		L	MILLIMETERS
Table 2			
		<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
		A	NOMINAL
		B	MINIMUM
		C	MAXIMUM

ALL* (See Note Preceding MRC BCRX)

AJYQ B SCREW THREAD QUANTITY PER INCH

Definition: THE NUMBER OF SCREW THREADS ON THE ITEM PER LINEAR INCH MEASURED ON A LINE PARALLEL TO THE THREAD AXIS, INCLUDING INCOMPLETE THREADS.

Reply Instructions: Enter the thread quantity. (e.g., AJYQB16.500*)

ALL

BCSC D MOUNTING ADAPTER

Definition: AN INDICATION OF WHETHER OR NOT A MOUNTING ADAPTER IS REQUIRED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BCSCDC*; BCSCDB\$DC*)

<u>REPLY CODE</u>	<u>REPLY (AE40)</u>
C	NOT REQUIRED
B	REQUIRED

NOTE FOR MRCS ABMD AND ABMH: IF REPLY CODE B IS ENTERED FOR MRC BCSC, REPLY TO MRCS ABMD AND ABMH.

ALL* (See Note Above)

ABMD J RECESS DIAMETER

FIIG T
Section Parts

APP			
Key	MRC	Mode Code	Requirements

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE RECESS, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABMDJAA4.187*; ABMDJLA106.2*; ABMDJAB4.185\$\$JAC4.189*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC ABMD)

ABMH	J	RECESS DEPTH
------	---	--------------

Definition: A MEASUREMENT BETWEEN SPECIFIED POINTS ON THE RECESS IN DISTINCTION FROM HEIGHT.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABMHJAA0.625*; ABMHJLA15.8*; ABMHJAB0.620\$\$JAC0.630*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL

FIIG T
Section Parts

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

BJWM	D	ROTARY TABLE DESIGN FEATURE
------	---	-----------------------------

Definition: AN INDICATION OF WHETHER OR NOT A ROTARY TABLE DESIGN FEATURE IS PROVIDED WITH THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BJWMDC*; BJWMDB\$DC*)

REPLY CODE

C

B

REPLY (AB22)

NOT PROVIDED

PROVIDED

NOTE FOR MRCS BJWN AND BJWP: IF REPLY CODE B IS ENTERED FOR MRC BJWM, REPLY TO MRCS BJWN AND BJWP.

ALL* (See Note Above)

BJWN	J	TABLE DIAMETER
------	---	----------------

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE TABLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BJWNJAA12.000*; BJWNJLA304.8*; BJWNJAB11.990\$\$JAC12.010*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC BJWN)

BJWP	D	FACEPLATE
------	---	-----------

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

Definition: AN INDICATION OF WHETHER OR NOT A FACEPLATE IS PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BJWPDB*; BJWPDB\$DC*)

REPLY CODE

C
B

REPLY (AB22)

NOT PROVIDED
PROVIDED

ALL*

AKYD	G	ACCESSORY COMPONENTS AND QUANTITY
------	---	-----------------------------------

Definition: THE NAME AND NUMBER OF PARTS SUPPLIED WITH THE ITEM WHICH MAY BE REQUIRED FOR APPLICATION.

Reply Instructions: Enter the reply in clear text. (e.g., AKYDGJAW, EXTERNAL 3*)

SECTION: K

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code appearing in the Index of Approved Item Names. (e.g., NAMED05220*)

KB, KC, KD

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDST0000*; MATLDST0000\$DSTAF00*; MATLDST0000\$DSTAF00*)

KC

BJWQ	D	HARDENED/GROUND FINISH
------	---	------------------------

Definition: AN INDICATION OF WHETHER OR NOT A HARDENED AND GROUND FINISH IS PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BJWQDB*; BJWQDB\$DC*)

REPLY CODE

C

B

REPLY (AB22)

NOT PROVIDED

PROVIDED

KA, KD

APGF	D	DESIGN TYPE
------	---	-------------

Definition: INDICATES THE DESIGN TYPE OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., APGFDBEM*; APGFDBEM\$DBEN*)

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		<u>REPLY CODE</u>	<u>REPLY (AK54)</u>
		BEM	EXPANSION BUSHING
		FJY	FLEXIBLE BALL
		FJZ	FORM (for applicability Key KD only)
		BBF	PLUG
		AFK #	SPRING (Insert)
		BEN	SPRING SLEEVE
		BEP	STEP JAW
		BEQ	STRAIGHT JAW

NOTE FOR MRCS CQTG, ACSV, BXLG AND ABKH: IF REPLY CODE BEM IS ENTERED FOR MRC APGF, REPLY TO MRC ABKH. IF REPLY CODE FJY IS ENTERED FOR MRC APGF, REPLY TO MRCS CQTG, ACSV, AND BXLG. IF REPLY CODE FJZ OR BBF IS ENTERED FOR MRC APGF, REPLY TO MRCS ACSV AND BXLG.

KA*, KD* (See Note Above)

CQTG A BALL QUANTITY

Definition: THE NUMBER OF BALLS INCLUDED ON THE ITEM.

Reply Instructions: Enter the quantity. (e.g., CQTGA2*)

KA*, KD* (See Note Preceding MRC CQTG)

ACSV J TUBE OUTSIDE DIAMETER FOR WHICH
DESIGNED

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE TUBE FOR WHICH DESIGNED, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACSVJAA0.625*; ACSVJLA15.8*; ACSVJAB0.625\$\$JAC0.750*)

Table 1

REPLY CODE
A
L

REPLY (AA05)
INCHES
MILLIMETERS

Table 2

REPLY CODE
A

REPLY (AC20)
NOMINAL

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		B	MINIMUM
		C	MAXIMUM

KA*, KD* (See Note Preceding MRC CQTG)

BXLG J TUBING WALL THICKNESS FOR WHICH
DESIGNED

Definition: A MEASUREMENT OF THE SMALLEST DIMENSION OF THE TUBING WALL FOR WHICH THE ITEM IS DESIGNED, IN DISTINCTION FROM LENGTH OR WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BXLGJAA0.035*; BXLGJLA0.8*; BXLGJAB0.035\$\$JAC0.042*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

KA*, KD* (See Note Preceding MRC CQTG)

ABKH J BUSHING DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A BUSHING, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABKHJAA0.500*; ABKHJLA12.7*; ABKHJAB0.499\$\$JAC0.501*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

FIIG T
Section Parts

APP	Key	MRC	Mode Code	Requirements
-----	-----	-----	-----------	--------------

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

KA*, KB

BJWR J EXPANSION RANGE

Definition: A MEASUREMENT TAKEN FROM THE NORMAL STATE TO THE EXPANDED MAXIMUM SIZE OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric values separated by a slash. Precede each value with the letter P. (e.g., BJWRJAP1.000/P1.375*; BJWRJLP25.4/P34.9*)

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

KA

AJXE A SIZE DESIGNATOR

Definition: A DESIGNATION INDICATING THE SIZE BY WHICH THE ITEM IS COMMERCIALY KNOWN AND/OR IDENTIFIED.

Reply Instructions: Enter the designator. (e.g., AJXEA6*)

KA, KB, KC

ABHP J OVERALL LENGTH

Definition: THE DIMENSION MEASURED ALONG THE LONGITUDINAL AXIS WITH TERMINATED POINTS AT THE EXTREME ENDS OF THE ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABHPJAA9.000*; ABHPJLA228.6*; ABHPJAB8.990\$\$JAC9.010*)

FIIG T
Section Parts

APP
Key

MRC

Mode Code

Requirements

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

KC

BDNB

J

MANDREL DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE MANDREL, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BDNBJAA4.250*; BDNBJLA107.9*; BDNBJAB4.250\$\$JAC4.275*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

KA

BQNZ

D

WORK HOLDING FACILITY

Definition: THE WORK HOLDING FACILITY INCLUDED ON THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BQNZDFB*; BQNZDFB\$DBR*)

FIIG T
Section Parts

APP
Key

MRC

Mode Code

Requirements

REPLY CODE

FB

BR

HL

REPLY (AG25)

BUSHING

JAW

SLEEVE

KA

BQPB

A

WORK HOLDING FACILITY QUANTITY

Definition: THE NUMBER OF WORK HOLDING FACILITIES INCLUDED WITH THE ITEM.

Reply Instructions: Enter the quantity. For jaw work holding facility enter the quantity of sets of jaws. (e.g., BQPBA2*; BQPBA2\$A3*)

KA

BQPC

J

WORK HOLDING FACILITY LENGTH

Definition: A MEASUREMENT OF THE LONGEST DIMENSION OF THE WORK HOLDING FACILITY, IN DISTINCTION FROM WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BQPCJAA4.000*; BQPCJLA101.6*; BQPCJAB3.750\$\$JAC4.000*; BQPCJAA3.000\$JAA4.000*)

If step jaw type, use AND (\$\$) Coding to enter a reply for each step, as applicable. (e.g., BQPCJAB0.500\$\$JAC0.750\$JAB2.000\$\$JAC2.250*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

KB

BJWS

G

MANDREL TAPER SIZE

FIIG T
Section Parts

APP
Key

MRC

Mode Code

Requirements

Definition: THE DIMINISHING MEASUREMENT OF THE DIAMETER ALONG THE MAJOR AXIS OF THE MANDREL.

Reply Instructions: Enter the reply in clear text. (e.g., BJWSG3/4 INCH PER FOOT*)

KA

BJWT

D

AUXILIARY CENTER

Definition: AN INDICATION OF WHETHER OR NOT AN AUXILIARY CENTER IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BJWTDB*; BJWTDB\$DC*)

REPLY CODE

B

C

REPLY (AA49)

INCLUDED

NOT INCLUDED

SECTION: L

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code appearing in the Index of Approved Item Names. (e.g., NAMED08053*)

ALL

AJUL	L	STONE STYLE
------	---	-------------

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE STONE.

Reply Instructions: Enter the applicable style number from [Appendix B](#), Reference Drawing Group A. (e.g., AJULLA4*)

ALL

BJWW	D	CORK FILLER
------	---	-------------

Definition: AN INDICATION OF WHETHER OR NOT A CORK FILLER IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BJWWDB*; BJWWDB\$DC*)

REPLY CODE	REPLY (AA49)
B	INCLUDED
C	NOT INCLUDED

NOTE FOR MRC ABRY: IF REPLY CODE B IS ENTERED FOR MRC BJWW, REPLY TO MRC ABRY.

ALL* (See Note Above)

ABRY	J	LENGTH
------	---	--------

FIIG T
Section Parts

APP									
Key	MRC		Mode Code						Requirements

Definition: A MEASUREMENT OF THE LONGEST DIMENSION OF ANY OBJECT, IN DISTINCTION FROM WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABRYJAA2.000*; ABRYJLA50.8*; ABRYJAB1.995\$\$JAC2.005*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL

AKDN	L	HOLDER STYLE DESIGNATOR
------	---	-------------------------

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE, OF THE HOLDER

Reply Instructions: Enter the applicable group designator and style number from [Appendix B](#), Reference Drawing Group B. (e.g., AKDNLB2*)

ALL

AHCM	D	ABRASIVE MATERIAL
------	---	-------------------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE ABRASIVE IS FABRICATED, EXCLUDING ANY BACKING MATERIAL, BINDER, MIX, OR LUBRICANT.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AHCMDABA000*; AHCMDABA000\$\$DSLF000*; AHCMDABA000\$DSLF000*)

REPLY CODE

ABA000

ABZ000

SLF000

REPLY (AD09)

ALUMINUM OXIDE

DIAMOND

SILICON CARBIDE

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

ALL

BJWY	D	GRIT CLASS
------	---	------------

Definition: AN INDICATION OF THE CLASS OF GRIT PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BJWYDAE*; BJWYDAC\$DAD*)

<u>REPLY CODE</u>	<u>REPLY (AF67)</u>
AE	COARSE
AC	FINE
AD	MEDIUM

ALL

BJWZ	D	ABRASIVE BOND TYPE
------	---	--------------------

Definition: INDICATES THE TYPE OF ABRASIVE BOND PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BJWZDBC*; BJWZDBC\$DBCH*)

<u>REPLY CODE</u>	<u>REPLY (AK39)</u>
BCG	RESINOID
BCH	VITRIFIED

ALL

AHDY	D	ABRASIVE BOND GRADE DESIGNATION
------	---	---------------------------------

Definition: A DESIGNATION INDICATING THE RELATIVE STRENGTH (HOLDING POWER) OF THE BOND WHICH HOLDS THE ABRASIVE GRAINS IN PLACE.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AHDYDAL*; AHDYDAB\$DBD*)

<u>REPLY CODE</u>	<u>REPLY (AF20)</u>
AB	A SOFT
BD	J

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		AL	J MEDIUM
		BE	J SOFT
		BF	M
		AP	M MEDIUM
		BG	3 SOFT
		BH	5 MEDIUM

FIIG T
Section Parts

SECTION: M

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code appearing in the Index of Approved Item Names. (e.g., NAMED05188*)

MA, MB

APGF	D	DESIGN TYPE
------	---	-------------

Definition: INDICATES THE DESIGN TYPE OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., APGFDAEL*; APGFDAEL\$\$DBHF*; APGFDAEL\$DBHF*)

<u>REPLY CODE</u>	<u>REPLY (AK54)</u>
AMT	ADJUSTABLE
BHA	BORING
BHB	CUTTING-OFF
BHC	PLANER
BHD	SHAPER
AEL	SOLID
BHE	THREADING
BHF	TURNING

MA

BJXG	D	HOLDER TYPE
------	---	-------------

Definition: INDICATES THE TYPE OF HOLDER PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BJXGDBHK*; BJXGDAPW\$\$DBHJ*; BJXGDAPW\$DBHJ*)

<u>REPLY CODE</u>	<u>REPLY (AK54)</u>
APW	EXTENSION
BHJ	GANG TOOL
ANQ	LEFT-HAND
BHK	LEFT HAND OFFSET
BHL	REVERSIBLE

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		ANP	RIGHT-HAND
		BHM	RIGHT HAND OFFSET
		AMN	STRAIGHT
		BHN	STRAIGHT CUTTER PARALLEL TO BASE

MA

BJXH D SPRING TYPE FEATURE

Definition: AN INDICATION OF WHETHER OR NOT A SPRING TYPE FEATURE IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BJXHDB*; BJXHDB\$DC*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

MA*, MB, MC

AQPP D SHANK TYPE

Definition: INDICATES THE TYPE OF SHANK.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AQPPDCF*; AQPPDBA\$DCG*)

<u>REPLY CODE</u>	<u>REPLY (AH09)</u>
BA	FLATTED
CG	ROUND
AH	STRAIGHT
CF	TAPERED
AK	THREADED

NOTE FOR MRCS AAZE, ACVR, AQZQ, AATR AND BCCY: FOR APPLICABILITY KEY MA, IF SHANK IS ROUND, REPLY TO MRCS AAZE AND AATR. IF SHANK IS OTHER THAN ROUND, REPLY TO MRCS ACVR, AQZQ AND AATR. FOR APPLICABILITY KEY MB, REPLY TO MRC AAZE OR BCCY.

MA*, MB*, MC (See Note Above)

FIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
	AAZE	J	SHANK DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE SHANK, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AAZEJAA0.375*; AAZEJLA9.5*; AAZEJAB0.374\$\$JAC0.376*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

MA* (See Note Preceding MRC AAZE)

ACVR	J	SHANK WIDTH
------	---	-------------

Definition: A MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF THE SHANK, IN DISTINCTION FROM THICKNESS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACVRJAA0.375*; ACVRJLA9.5*; ACVRJAB0.374\$\$JAC0.376*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

FIIG T
Section Parts

APP	MRC	Mode Code	Requirements
Key			

MA* (See Note Preceding MRC AAZE)

AQZQ J SHANK HEIGHT

Definition: A MEASUREMENT FROM THE BOTTOM TO THE TOP OF THE SHANK, IN DISTINCTION FROM DEPTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AQZQJAA0.875*; AQZQJLA19.0*; AQZQJAB0.870\$\$JAC0.880*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

MA* (See Note Preceding MRC AAZE)

AATR J SHANK LENGTH

Definition: A MEASUREMENT OF THE LONGEST DIMENSION OF THE SHANK, IN DISTINCTION FROM WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AATRJAA9.125*; AATRJLA231.7*; AATRJAB9.120\$\$JAC9.130*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
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MB* (See Note Preceding MRC AAZE)

BCCY	G	SHANK SIZE
------	---	------------

Definition: THE DESIGNATION BY WHICH THE SIZE OF THE SHANK IS IDENTIFIED.

Reply Instructions: Enter the reply in clear text. (e.g., BCCYGNUMBER 3 MORSE TAPER*)

MA

BJXJ	D	CUTTER TOOL ACCOMMODATED
------	---	--------------------------

Definition: AN INDICATION OF THE CUTTING TOOL THE ITEM IS DESIGNED TO ACCOMMODATE.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BJXJDARR*; BJXJDARR\$\$DARS*; BJXJDARR\$DARS*)

<u>REPLY CODE</u>	<u>REPLY (AK95)</u>
ARR	BORING BAR
ARS	CUTTER BIT

MA

BJXK	D	CUTTING TOOL SHAPE
------	---	--------------------

Definition: THE PHYSICAL CONFIGURATION OF THE CUTTING TOOL.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BJXKDADT*; BJXKDADB\$\$DAEJ*; BJXKDADB\$DAEJ*)

<u>REPLY CODE</u>	<u>REPLY (AL59)</u>
ADB	BEVELED
AHW	DIAMOND
AEJ	ECCENTRIC BACK
AHX	FLAT ROUND INSERT
AHY	FLAT SQUARE INSERT
AEK	FLAT TRIANGULAR INSERT
ADW	RECTANGULAR
AEL	ROUND BORING BAR
ADT	SQUARE
AEM	TRAPEZOID

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
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NOTE FOR MRCS ABGL, ABNM, AND ABMZ: IF REPLY CODE ADB, AHY, ADW, OR AEM IS ENTERED FOR MRC BJXK, REPLY TO MRCS ABGL AND ABNM. IF REPLY CODE AEJ IS ENTERED FOR MRC BJXK, REPLY TO MRC ABNM. IF REPLY CODE AHX OR AEK IS ENTERED FOR MRC BJXK, REPLY TO MRCS ABMZ AND ABNM. IF REPLY CODE AEL IS ENTERED FOR MRC BJXK, REPLY TO MRC ABMZ. IF REPLY CODE ADT IS ENTERED FOR MRC BJXK, REPLY TO MRC ABGL.

MA* (See Note Above)

ABGL J WIDTH

Definition: A MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF AN ITEM, IN DISTINCTION FROM THICKNESS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABGLJAA0.250*; ABGLJLA6.3*; ABGLJAB0.245\$\$JAC0.255*)

Table 1

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

MA* (See Note Preceding MRC ABGL)

ABNM J THICKNESS

Definition: A MEASUREMENT OF THE SMALLEST DIMENSION OF AN ITEM, IN DISTINCTION FROM LENGTH OR WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABNMJAA0.125*; ABNMJLA3.1*; ABNMJAB0.120\$\$JAC0.130*)

Table 1

REPLY CODE

A

REPLY (AA05)

INCHES

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		L	MILLIMETERS
		<u>Table 2</u>	
		<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
		A	NOMINAL
		B	MINIMUM
		C	MAXIMUM

MA* (See Note Preceding MRC ABGL)

ABMZ J DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A CIRCULAR FIGURE OR BODY, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. For triangular cutters, enter the diameter of the inscribed circle. (e.g., ABMZJAA0.250*; ABMZJLA6.3*; ABMZJAB0.245\$\$JAC0.255*)

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

MB

BJXL J CUTTER DIAMETER RANGE

Definition: THE MINIMUM AND MAXIMUM DIAMETER LIMITS OF THE CUTTER.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric values, separated by a slash. Precede each value with a P. (e.g., BJXLJAP0.250/P0.625*; BJXLJLP6.3/P15.8*)

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
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REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

MB

BJXM D CUTTER DRIVE TYPE FOR WHICH
DESIGNED

Definition: INDICATES THE CUTTER DRIVE TYPE FOR WHICH THE ITEM IS
DESIGNED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g.,
BJXMDADP*; BJXMDBHW\$DBHX*)

REPLY CODE

BHW
BHX
AMN
ADP

REPLY (AK54)

PLAIN TAPER
SPLINE TAPERED
STRAIGHT
THREADED

MC

AASL J HEAD DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH
THE CENTER OF A CIRCULAR HEAD, AND TERMINATES AT THE
CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below,
followed by the numeric value. (e.g., AASLJAA0.688*; AASLJLA17.4*;
AASLJAB0.686\$\$JAC0.690*)

Table 1

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

FIIG T
Section Parts

APP									
Key	MRC		Mode Code						Requirements

MC

AASV J HEAD LENGTH

Definition: A MEASUREMENT OF THE LONGEST DIMENSION OF A HEAD, IN DISTINCTION FROM WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AASVJAA0.688*; AASVJLA17.4*; AASVJAB0.686\$\$JAC0.690*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

MA*

AKYD G ACCESSORY COMPONENTS AND
QUANTITY

Definition: THE NAME AND NUMBER OF PARTS SUPPLIED WITH THE ITEM WHICH MAY BE REQUIRED FOR APPLICATION.

Reply Instructions: Enter the reply in clear text. (e.g., AKYDGWRENCH 2*)

FIIG T
Section Parts

SECTION: N

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code appearing in the Index of Approved Item Names. (e.g., NAMED05023*)

NA

APHE	D	OPERATION METHOD
------	---	------------------

Definition: THE MEANS USED TO OPERATE THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., APHEDBR*; APHEDBR\$DHC*)

<u>REPLY CODE</u>	<u>REPLY (AC58)</u>
BR	CAM
HC	HYDRAULIC
AU	SCREW

NOTE FOR MRC BJXN: IF REPLY CODE HC IS ENTERED FOR MRC APHE, REPLY TO MRC BJXN.

NA* (See Note Above)

BJXN	D	HYDRAULIC PUMP
------	---	----------------

Definition: AN INDICATION OF WHETHER OR NOT A HYDRAULIC PUMP IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BJXNDB*; BJXNDB\$DC*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

FIIG T
Section Parts

APP									
Key	MRC		Mode Code						Requirements

NOTE FOR MRCS BJDW AND AEVP: IF REPLY CODE B IS ENTERED FOR MRC BJXN, REPLY TO MRCS BJDW AND AEVP.

NA* (See Note Above)

BJDW	J	MAXIMUM OPERATING PRESSURE
------	---	----------------------------

Definition: THE MAXIMUM PRESSURE AT WHICH THE ITEM IS DESIGNED TO OPERATE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., BJDWJEA5.0*; BJDWJEF4.5*)

<u>REPLY CODE</u>	<u>REPLY (AJ20)</u>
KC	BAR
EF	METRIC TON
EA	TONS

NA* (See Note Preceding MRC BJDW)

AEVP	D	MANUAL CONTROL METHOD
------	---	-----------------------

Definition: THE MEANS USED TO MANUALLY ADJUST THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AEVPDAZ*; AEVPDAZ\$DDD*)

<u>REPLY CODE</u>	<u>REPLY (AC58)</u>
AZ	FOOT
DD	HAND

NA

ATQJ	J	JAW WIDTH
------	---	-----------

Definition: A MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF THE JAW, IN DISTINCTION FROM THICKNESS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ATQJJAA4.125*; ATQJJLA104.7*; ATQJJAB4.120\$\$JAC4.130*)

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
<hr/>			
		<u>Table 1</u>	
		<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
		A	INCHES
		L	MILLIMETERS
		<u>Table 2</u>	
		<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
		A	NOMINAL
		B	MINIMUM
		C	MAXIMUM

NA

BJXP J JAW DEPTH

Definition: A MEASUREMENT BETWEEN SPECIFIED POINTS ON THE JAW, IN DISTINCTION FROM HEIGHT.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BJXPJAA1.063*; BJXPJLA26.9*; BJXPJAB1.000\$\$JAC1.125*)

	<u>Table 1</u>	
	<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
	A	INCHES
	L	MILLIMETERS
	<u>Table 2</u>	
	<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
	A	NOMINAL
	B	MINIMUM
	C	MAXIMUM

NB

BJXQ J JAW OVERALL LENGTH

Definition: THE DIMENSION MEASURED ALONG THE LONGITUDINAL AXIS WITH TERMINATED POINTS AT THE EXTREME ENDS OF THE JAW.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BJXQJAA3.000*; BJXQJLA76.2*; BJXQJAB2.937\$\$JAC3.063*)

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
<hr/>			
<u>Table 1</u>			
		<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
		A	INCHES
		L	MILLIMETERS
<u>Table 2</u>			
		<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
		A	NOMINAL
		B	MINIMUM
		C	MAXIMUM

ALL

BJXR J JAW MAXIMUM OPENING

Definition: A MEASUREMENT OF THE MAXIMUM OPENING BETWEEN THE JAWS.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., BJXRJA2.000*; BJXRJL50.8*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

NA*

BJXS D JAW GROOVE POSITION

Definition: INDICATES THE POSITION OF THE GROOVE(S) IN THE JAW(S).

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BJXSDB*; BJXSDB\$DD*)

<u>REPLY CODE</u>	<u>REPLY (AC60)</u>
B	HORIZONTAL
D	VERTICAL

NA

AWET D BASE TYPE

FIIG T
Section Parts

APP									
Key	MRC		Mode Code						Requirements

Definition: INDICATES THE TYPE OF BASE FURNISHED WITH THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AWETDAEZ*; AWETDAEZ\$DAFA*)

<u>REPLY CODE</u>	<u>REPLY (AJ57)</u>
AEZ	DOUBLE SWIVEL
AFA	SINGLE SWIVEL
AFB	STATIONARY
AFC	UNIVERSAL

NOTE FOR MRC BJXT: IF REPLY CODE AEZ, AFA, OR AFC IS ENTERED FOR MRC AWET, REPLY TO MRC BJXT.

NA* (See Note Above)

BJXT	G	BASE ADJUSTMENT DEGREE IN EACH PLANE
------	---	--------------------------------------

Definition: A MEASUREMENT OF THE DEGREE OF ADJUSTMENT FOR THE BASE IN EACH PLANE.

Reply Instructions: Enter the reply in clear text. (e.g., BJXTG450 DEGREE ADJUSTMENT EACH SIDE HORIZONTALLY IN VERTICAL PLANE*)

NA

BJXW	D	BASE TO MACHINE SECURING PROVISION
------	---	------------------------------------

Definition: AN INDICATION OF WHETHER OR NOT A BASE TO MACHINE SECURING PROVISION(S) IS PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BJXWDB*; BJXWDB\$DC*)

<u>REPLY CODE</u>	<u>REPLY (AB22)</u>
C	NOT PROVIDED
B	PROVIDED

NA*

AKYD	G	ACCESSORY COMPONENTS AND
------	---	--------------------------

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
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QUANTITY

Definition: THE NAME AND NUMBER OF PARTS SUPPLIED WITH THE ITEM WHICH MAY BE REQUIRED FOR APPLICATION.

Reply Instructions: Enter the reply in clear text. (e.g., AKYDGJAW 1*)

FIIG T
Section Parts

SECTION: P

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code appearing in the Index of Approved Item Names. (e.g., NAMED05044*)

ALL

BJXX	J	CONTRACTED HEIGHT
------	---	-------------------

Definition: A MEASUREMENT FROM THE BOTTOM TO THE TOP OF THE ITEM WHEN FULLY CONTRACTED, IN DISTINCTION FROM DEPTH.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., BJXXJA2.750*; BJXXJL69.8*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

ALL

BJGJ	J	EXTENDED HEIGHT
------	---	-----------------

Definition: A MEASUREMENT FROM THE BOTTOM TO THE TOP OF THE ITEM WHEN FULLY EXTENDED, IN DISTINCTION FROM DEPTH.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., BJGJJA3.750*; BJGJJL95.2*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

SECTION: Q

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code appearing in the Index of Approved Item Names.. (e.g., NAMED04964*)

ALL

APGF	D	DESIGN TYPE
------	---	-------------

Definition: INDICATES THE DESIGN TYPE OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., APGFDADL*; APGFDADL\$DBLX*)

REPLY CODE

ADL

BLX

AHL

REPLY (AK54)

CLAMP

MAGNETIC

PLAIN

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDFFEA000*; MATLDFFFA000\$DFEC000*; MATLDFFFA000\$DFEC000*)

ALL

ATNN	D	HARDENING FEATURE
------	---	-------------------

Definition: AN INDICATION OF WHETHER OR NOT A HARDENING FEATURE IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ATNNDB*; ATNNDB\$DC*)

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
		B	INCLUDED
		C	NOT INCLUDED

ALL

AGYE D SURFACE FINISH

Definition: AN ADDITIONAL FINISHING PROCESS BY WHICH THE SURFACE OF AN ITEM IS ALTERED IN RESPECT TO POLISHING, GRINDING, AND THE LIKE.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AGYEDAF*; AGYEDAF\$DAH*)

<u>REPLY CODE</u>	<u>REPLY (AA41)</u>
AF	GROUND
AH	UNGROUND

ALL*

BJXZ A BLOCK QUANTITY PER SET

Definition: THE NUMBER OF BLOCK(S) PER SET.

Reply Instructions: Enter the quantity. (e.g., BJXZA3*; BJXZA3\$A4*)

QA

BMDC A VEE QUANTITY

Definition: THE NUMBER OF VEE(S) PROVIDED ON THE ITEM.

Reply Instructions: Enter the quantity. (e.g., BMDCA2*; BMDCA2\$A3*)

QA

BMDD D VEE LOCATION

Definition: INDICATES THE LOCATION OF THE VEE(S) ON THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BMDDDABD*; BMDDDABA\$DBNS*; BMDDDABA\$DBNS*)

FIIG T
Section Parts

APP	MRC	Mode Code	Requirements
Key			

<u>REPLY CODE</u>	<u>REPLY (AJ91)</u>
ABA	BOTTOM
ASB	EACH SIDE
BNS	END STEP
ABD	TOP

ALL*

BMDF J MILLED GROOVE LOCATION AND QUANTITY

Definition: INDICATES THE MILLED GROOVE LOCATION AND THE NUMBER PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the quantity. (e.g., BMDFJABA2*; BMDFJABA2\$JASB3*; BMDFJABA2\$\$JASB3*)

<u>REPLY CODE</u>	<u>REPLY (AJ91)</u>
ABA	BOTTOM
ASB	EACH SIDE
BNS	END STEP

ALL

ABRY J LENGTH

Definition: A MEASUREMENT OF THE LONGEST DIMENSION OF ANY OBJECT, IN DISTINCTION FROM WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABRYJAA3.375*; ABRYJLA85.7*; ABRYJAB3.312\$\$JAC3.438*)

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

FIIG T
Section Parts

APP	MRC	Mode Code	Requirements
Key			

ALL

ABGL J WIDTH

Definition: A MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF AN ITEM, IN DISTINCTION FROM THICKNESS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABGLJAA1.875*; ABGLJLA47.6*; ABGLJAB1.812\$\$JAC1.938*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL

HGTH J HEIGHT

Definition: A MEASUREMENT FROM THE BOTTOM TO THE TOP OF AN OBJECT, IN DISTINCTION FROM DEPTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., HGTHJAA1.875*; HGTHJLA47.6*; HGTHJAB1.812\$\$JAC1.938*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
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QA, QB*

BMDG	J	MAXIMUM MATERIAL DIAMETER ACCOMMODATED
------	---	---

Definition: THE MAXIMUM LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE ACCOMMODATION FOR THE MATERIAL, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., BMDGJA1.313*; BMDGJL33.3*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

ALL*

BQDM	D	HOLE TYPE
------	---	-----------

Definition: INDICATES THE TYPE OF HOLE(S) PROVIDED IN THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BQDMDAG*; BQDMDAG\$\$DAH*; BQDMDAG\$DAH*)

<u>REPLY CODE</u>	<u>REPLY (AH37)</u>
AG	DRILLED
AH	TAPPED

NOTE FOR MRCS BQDP, BQDQ, AAUB, BQDR, BQDS, AND ABUI: IF REPLY CODE AG IS ENTERED FOR MRC BQDM, REPLY TO MRCS BQDP, BQDQ, AND AAUB. IF REPLY CODE AH IS ENTERED FOR MRC BQDM, REPLY TO MRCS BQDR, BQDS, AND ABUI.

ALL* (See Note Above)

BQDP	A	DRILLED HOLE QUANTITY
------	---	-----------------------

Definition: THE NUMBER OF DRILLED HOLES IN THE ITEM.

FIIG T
Section Parts

APP			
Key	MRC	Mode Code	Requirements

Reply Instructions: Enter the quantity. (e.g., BQDPA3*; BQDPA3\$A4*)

ALL* (See Note Preceding MRC BQDP)

BQDQ D DRILLED HOLE LOCATION

Definition: INDICATES THE LOCATION OF THE DRILLED HOLE(S) ON THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BQDQDBPG*; BQDQDBPC\$\$DBPG*; BQDQDBPC\$DBPG*)

<u>REPLY CODE</u>
BPC
BPG

<u>REPLY (AJ91)</u>
BOTTOM OF V
TOP OF V

ALL* (See Note Preceding MRC BQDP)

AAUB J HOLE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A HOLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AAUBJAA0.375*; AAUBJLA9.5*; AAUBJAB0.370\$\$JAC0.380*)

<u>Table 1</u>
<u>REPLY CODE</u>
A
L

<u>REPLY (AA05)</u>
INCHES
MILLIMETERS

<u>Table 2</u>
<u>REPLY CODE</u>
A
B
C

<u>REPLY (AC20)</u>
NOMINAL
MINIMUM
MAXIMUM

ALL* (See Note Preceding MRC BQDP)

BQDR A TAPPED HOLE QUANTITY

Definition: THE NUMBER OF TAPPED HOLES IN THE ITEM.

FIIG T
Section Parts

APP			
Key	MRC	Mode Code	Requirements

Reply Instructions: Enter the quantity. (e.g., BQDRA2*; BQDRA2\$A3*)

ALL* (See Note Preceding MRC BQDP)

BQDS D TAPPED HOLE LOCATION

Definition: THE POSITION OF THE TAPPED HOLE(S) ON THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BQDSDBPF*; BQDSDBPD\$\$DBPE*; BQDSDBPD\$DBPE*)

<u>REPLY CODE</u>	<u>REPLY (AJ91)</u>
BPD	IN BASE
BPE	IN SIDES
BPF	THROUGH SIDES

ALL* (See Note Preceding MRC BQDP)

ABUJ A THREAD SIZE

Definition: DESIGNATES THE THREAD DIAMETER AND QUANTITY OF THREADS PER SPECIFIC MEASUREMENT SCALE.

Reply Instructions: Enter the applicable thread diameter, followed by a dash and the number of threads.

(e.g., ABUJA0.250-20*;

ABUJA0.250-20\$A0.350-20*)

ALL*

AKYD G ACCESSORY COMPONENTS AND QUANTITY

Definition: THE NAME AND NUMBER OF PARTS SUPPLIED WITH THE ITEM WHICH MAY BE REQUIRED FOR APPLICATION.

Reply Instructions: Enter the reply in clear text. (e.g., AKYDGCLAMP, YOKE TYPE 1*)

SECTION: R

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code appearing in the Index of Approved Item Names. (e.g., NAMED05102*)

ALL

APGF	D	DESIGN TYPE
------	---	-------------

Definition: INDICATES THE DESIGN TYPE OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., APGFDBMS*; APGFDBMS\$DBMT*)

<u>REPLY CODE</u>	<u>REPLY (AK54)</u>
BMS	SPRING DRAW-IN
BMT	SPRING FORCE-IN
BMV	STEP CHUCK

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDBR0000*; MATLDBR0000\$DBN0000*; MATLDBR0000\$DBN0000*)

ALL

BMDH	D	INTERNAL GRIP HOLE SHAPE
------	---	--------------------------

Definition: THE PHYSICAL CONFIGURATION OF THE INTERNAL GRIPPING HOLE.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BMDHDRD*; BMDHDHE\$DSQ*)

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		<u>REPLY CODE</u>	<u>REPLY (AD07)</u>
		HE	HEXAGONAL
		RD	ROUND
		SQ	SQUARE

ALL

BMDK J MATERIAL SIZE ACCOMMODATED

Definition: DESIGNATES THE SIZE OF MATERIAL THAT THE ITEM WILL ACCOMMODATE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BMDKJAA0.750*; BMDKJLA19.1*; BMDKJAB0.745\$\$JAC0.755*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

NOTE FOR MRCS BMDJ AND AECW: IF THE SOURCE DOCUMENT SPECIFIES A TAPERED BODY, REPLY TO MRC BMDJ. IF OTHER THAN TAPER BODY, REPLY TO MRC AECW.

ALL* (See Note Above)

BMDJ J BODY TAPER SIZE

Definition: DESIGNATES THE TAPER SIZE, OF THE BODY.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., BMDJJAD7*; BMDJJAD5\$JAD7*)

<u>REPLY CODE</u>	<u>REPLY (AH09)</u>
AD	BROWN AND SHARPE
AB	MORSE

FIIG T
Section Parts

APP									
Key	MRC		Mode Code						Requirements

ALL* (See Note Preceding MRC BMDJ)

AECW J BODY DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A CIRCULAR BODY, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AECWJA1.000*; AECWJL25.4*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

ALL

ABHP J OVERALL LENGTH

Definition: THE DIMENSION MEASURED ALONG THE LONGITUDINAL AXIS WITH TERMINATED POINTS AT THE EXTREME ENDS OF THE ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABHPJAA4.594*; ABHPJLA116.6*; ABHPJAB4.590\$\$JAC4.598*)

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL*

APJC D THREAD LOCATION

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

Definition: INDICATES THE LOCATION OF THE THREAD ON THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., APJCDABY*; APJCDABY\$\$DABX*)

<u>REPLY CODE</u>	<u>REPLY (AJ91)</u>
ABY	EXTERNAL
ABX	INTERNAL

NOTE FOR MRCS ABUJ, AJYP, AND AAJF: IF A REPLY IS ENTERED FOR MRC APJC, REPLY TO MRCS ABUJ, AJYP, AND AAJF. ENTER A REPLY FOR EACH LOCATION IN THE SAME SEQUENCE AS MRC APJC, USING AND/OR (\$/\$) CODING.

ALL* (See Note Above)

ABUJ	A	THREAD SIZE
------	---	-------------

Definition: DESIGNATES THE THREAD DIAMETER AND NUMBER OF THREADS PER SPECIFIC MEASUREMENT SCALE.

Reply Instructions: Enter the applicable thread diameter, followed by a dash and the number of threads. (e.g., ABUJA0.250-20*; ABUJA0.250-20\$A0.350-20*;

ABUJA0.250-20\$\$A0.350-20*)

ALL* (See Note Preceding MRC ABUJ)

AJYP	D	SCREW THREAD SERIES DESIGNATOR
------	---	--------------------------------

Definition: A DESIGNATION DISTINGUISHING ONE GROUP OF SCREW THREAD DIAMETER-PITCH COMBINATIONS FROM ANOTHER BY THE NUMBER OF THREADS PER MEASUREMENT SCALE FOR A SPECIFIC DIAMETER.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AJYPDNC*; AJYPDNC\$DNS*; AJYPDASS\$DAY*)

<u>REPLY CODE</u>	<u>REPLY (AH06)</u>
AS	AMERICAN STANDARD
BW	BSW
TT	BUTTRESS

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		SM	ISO M
		AQ	NS
		SJ	SI
		AY	SPECIAL
		NC	UNC
		NF	UNF
		NS	UNS
		WW	WHITWORTH

ALL* (See Note Preceding MRC ABUJ)

AAJF D THREAD DIRECTION

Definition: THE DIRECTION OF THE THREAD WHEN VIEWED AXIALLY. A RIGHT-HAND THREAD WINDS IN A CLOCKWISE DIRECTION WHILE A LEFT-HAND THREAD WINDS IN A COUNTER-CLOCKWISE DIRECTION.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AAJFDR*; AAJFDL\$DR*; AAJFDL\$\$DR*)

<u>REPLY CODE</u>	<u>REPLY (AA38)</u>
L	LEFT-HAND
R	RIGHT-HAND

NOTE FOR MRC CQQR: IF REPLY CODE SM IS ENTERED FOR MRC AJYP, REPLY TO MRC CQQR.

ALL* (See Note Above)

CQQR B THREAD PITCH IN MILLIMETERS

Definition: A MEASUREMENT OF DISTANCE BETWEEN CORRESPONDING POINTS ON TWO ADJACENT THREADS MEASURED PARALLEL TO THE THREAD AXIS, EXPRESSED IN MILLIMETERS.

Reply Instructions: Enter the numeric value. (e.g., CQQRB1.0*)

ALL*

AKYD G ACCESSORY COMPONENTS AND QUANTITY

Definition: THE NAME AND NUMBER OF PARTS SUPPLIED WITH THE ITEM WHICH MAY BE REQUIRED FOR APPLICATION.

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
<hr/> Reply Instructions: Enter the reply in clear text. (e.g., AKYDGBUSHING, ROUND 1*)			

FIIG T
Section Parts

SECTION: S

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code appearing in the Index of Approved Item Names.. (e.g., NAMED11030*)

ALL

APGF	D	DESIGN TYPE
------	---	-------------

Definition: INDICATES OF THE DESIGN TYPE OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., APGFDAEL*; APGFDAEL\$DCAM*)

REPLY CODE

CAM

AEL

REPLY (AK54)

EXPANDING

SOLID

NOTE FOR MRC BJWR: IF REPLY CODE CAM IS ENTERED FOR MRC APGF, REPLY TO MRC BJWR.

ALL* (See Note Above)

BJWR	J	EXPANSION RANGE
------	---	-----------------

Definition: A MEASUREMENT TAKEN FROM THE NORMAL STATE TO THE EXPANDED MAXIMUM SIZE OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric values, separated by a slash. Precede each value with the letter P. (e.g., BJWRJAP0.262/P0.283*; BJWRJLP6.6/P7.1*)

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

ALL

BGBD	J	SIZE
------	---	------

Definition: DESIGNATES THE SIZE OF THE ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BGBDJAA0.4062*; BGBDJLA10.3*; BGBDJAB0.4060\$\$JAC0.4064*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL

STYL	L	STYLE DESIGNATOR
------	---	------------------

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE ITEM.

Reply Instructions: Enter the applicable group designator and style number from [Appendix B](#), Reference Drawing Group C or D. (e.g., STYLLC3*)

ALL

BMDL	J	UPPER END DIAMETER
------	---	--------------------

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE UPPER END, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BMDLJAA0.375*; BMDLJLA9.5*; BMDLJAB0.370\$\$JAC0.380*)

Table 1

REPLY CODE

REPLY (AA05)

FIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		A	INCHES
		L	MILLIMETERS
		<u>Table 2</u>	
		<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
		A	NOMINAL
		B	MINIMUM
		C	MAXIMUM

FIIG T
Section Parts

SECTION: T

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code appearing in the Index of Approved Item Names. (e.g., NAMED05087*)

ALL

APGF	D	DESIGN TYPE
------	---	-------------

Definition: INDICATES THE DESIGN TYPE OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., APGFD BN L*; APGFD APW\$DBNK*)

REPLY CODE

BNJ
APW
BNK
BNL

REPLY (AK54)

CHUCKING
EXTENSION
EXTENSION REDUCING
REDUCING

TB

BMDR	J	OUTSIDE TAPER SIZE
------	---	--------------------

Definition: DESIGNATES THE OUTSIDE TAPER SIZE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., BMDRJAD7*; BMDRJAR2\$JAD5*)

REPLY CODE

AR
AD
AB
AX

REPLY (AH09)

AMERICAN STANDARD TAPER
BROWN AND SHARPE
MORSE
SPECIAL

TB

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
	BMDS	J	INSIDE TAPER SIZE

Definition: DESIGNATES THE INSIDE TAPER SIZE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the size. (e.g., BMDSJAB4*; BMDSJAD4\$JAB2*)

<u>REPLY CODE</u>	<u>REPLY (AH09)</u>
AR	AMERICAN STANDARD TAPER
AD	BROWN AND SHARPE
AB	MORSE

TA

AAZE J SHANK DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE BODY OF THE SHANK, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AAZEJAA7.625*; AAZEJLA191.6*; AAZEJAB7.624\$\$JAC7.626*)

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

TA

AAUB J HOLE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A HOLE, AND TERMINATES AT THE CIRCUMFERENCE.

FIIG T
Section Parts

APP	MRC	Mode Code	Requirements
Key			

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AAUBJAA0.750*; AAUBJLA19.0*; AAUBJAB0.745\$\$JAC0.755*)

Table 1

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

ALL

ABHP	J	OVERALL LENGTH
------	---	----------------

Definition: THE DIMENSION MEASURED ALONG THE LONGITUDINAL AXIS WITH TERMINATED POINTS AT THE EXTREME ENDS OF THE ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABHPJAA12.500*; ABHPJLA317.5*; ABHPJAB12.490\$\$JAC12.510*)

Table 1

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

ALL

BMDT	D	SHANK TYPE FOR WHICH DESIGNED
------	---	-------------------------------

Definition: INDICATES THE TYPE OF SHANK FOR WHICH THE ITEM IS DESIGNED.

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BMDTDBB*; BMDTDBB\$DBC*)

REPLY CODE
CH
BB
BC

REPLY (AH09)
BROKEN
SHORT
STANDARD

FIIG T
Section Parts

SECTION: U

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code appearing in the Index of Approved Item Names. (e.g., NAMED05189*)

ALL

APGF	D	DESIGN TYPE
------	---	-------------

Definition: INDICATES THE DESIGN TYPE OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., APGFDBPG*; APGFDBPG\$DBPF*)

<u>REPLY CODE</u>	<u>REPLY (AK54)</u>
BPG	INSERTED CUTTER
BPF	INTEGRAL CUTTER

NOTE FOR MRCS BMDW, BMDX, BMFC, BMDY, BMDZ, BMFB, AND BMFF: IF REPLY CODE BPG IS ENTERED FOR MRC APGF, REPLY TO MRCS BMDW, BMDX, BMFC, BMDY, BMDZ AND BMFB. IF REPLY CODE BPF IS ENTERED FOR MRC APGF, REPLY TO MRC BMFF.

ALL* (See Note Above)

BMDW	A	CUTTER OPENING QUANTITY
------	---	-------------------------

Definition: THE NUMBER OF CUTTER OPENINGS PROVIDED.

Reply Instructions: Enter the quantity. (e.g., BMDWA1*; BMDWA1\$A2*)

ALL* (See Note Preceding MRC BMDW)

BMDX	D	CUTTER OPENING LOCATION
------	---	-------------------------

Definition: INDICATES THE LOCATION OF THE CUTTER OPENING(S) ON THE ITEM.

FIIG T
Section Parts

APP			
Key	MRC	Mode Code	Requirements

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BMDXDAHL*; BMDXDAHP\$DAHL*)

<u>REPLY CODE</u>	<u>REPLY (AJ91)</u>
AHH	BOTH ENDS
AHP	CENTER
AHL	ONE END

ALL* (See Note Preceding MRC BMDW)

BMFC D CUTTER BIT SHAPE ACCOMMODATED

Definition: THE PHYSICAL CONFIGURATION OF THE CUTTER BIT THAT THE ITEM WILL ACCOMMODATE.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BMFCDRD*; BMFCDBB\$DRT*)

<u>REPLY CODE</u>	<u>REPLY (AD07)</u>
BB	FLATTED ROUND
RT	RECTANGULAR
RD	ROUND
SQ	SQUARE
TR	TRIANGULAR

NOTE FOR MRCS ABHP, ADAV, ABMK, AND ADUM: IF REPLY CODE BB OR RD IS ENTERED FOR MRC BMFC, REPLY TO MRCS ABHP AND ADAV. IF REPLY CODE RT IS ENTERED FOR MRC BMFC, REPLY TO MRCS ABHP, ABMK, AND ADUM. IF REPLY CODE SQ IS ENTERED FOR MRC BMFC, REPLY TO MRC ABMK. IF REPLY CODE TR IS ENTERED FOR MRC BMFC, REPLY TO MRCS ABHP AND ABMK. ENTER A REPLY TO MRCS ABHP, ADAV, ABMK, AND ADUM FOR EACH DIFFERENT SIZE CUTTER BIT ACCOMMODATED, USING AND CONDITION CODING (\$\$), IF APPLICABLE.

ALL* (See Note Above)

ABHP J OVERALL LENGTH

Definition: THE DIMENSION MEASURED ALONG THE LONGITUDINAL AXIS WITH TERMINATED POINTS AT THE EXTREME ENDS OF THE ITEM.

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABHPJAA1.500*; ABHPJLA38.1*; ABHPJAB1.000\$\$JAC1.500*; ABHPJAB1.000\$JAC1.500*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC ABHP)

ADAV J OVERALL DIAMETER

Definition: A MEASUREMENT OF THE LONGEST STRAIGHT LINE ACROSS A CIRCULAR CROSS-SECTIONAL PLANE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ADAVJAA0.500*; ADAVJLA12.7*; ADAVJAB0.450\$\$JAC0.500*; ADAVJAA0.450\$JAA0.600*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC ABHP)

ABMK J OVERALL WIDTH

Definition: AN OVERALL MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF AN ITEM, IN DISTINCTION FROM THICKNESS.

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
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Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABMKJAA0.500*; ABMKJLA12.7*; ABMKJAB0.200\$\$JAC0.250*; ABMKJAA0.250\$JAA0.300*)

Table 1

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

ALL* (See Note Preceding MRC ABHP)

ADUM J OVERALL THICKNESS

Definition: AN OVERALL MEASUREMENT OF THE SMALLEST DIMENSION OF AN ITEM, IN DISTINCTION FROM LENGTH OR WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ADUMJAA0.063*; ADUMJLA1.6*; ADUMJAB0.063\$\$JAC0.070*; ADUMJAA0.060\$JAA0.065*)

Table 1

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

ALL* (See Note Preceding MRC BMDW)

BMDY B CUTTER OPENING ANGLE IN DEG

Definition: THE ANGLE BETWEEN THE AXIS OF THE CUTTER OPENING AND THE AXIS OF THE ITEM, EXPRESSED IN DEGREES.

FIIG T
Section Parts

APP
Key

MRC

Mode Code

Requirements

Reply Instructions: Enter the numeric value. Enter a reply for each cutter opening with a different angle, using AND/OR (\$/\$) Coding. (e.g., BMDYB45.0*; BMDY45.0\$\$B60.0*; BMDYB45.0\$B90.0*)

ALL* (See Note Preceding MRC BMDW)

BMDZ

D

CUTTER LOCKING METHOD

Definition: THE MEANS USED FOR LOCKING THE CUTTER.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BMDZDBM*; BMDZDBK\$DBL*)

REPLY CODE

BK

BL

BM

BN

REPLY (AE44)

CAP

CLAMP SCREW

SET SCREW

WEDGE

ALL* (See Note Preceding MRC BMDW)

BMFB

D

EXPANDING FEATURE

Definition: AN INDICATION OF WHETHER OR NOT AN EXPANDING FEATURE IS INCLUDED WITH THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BMFBDB*; BMFBDB\$DC*)

REPLY CODE

B

C

REPLY (AA49)

INCLUDED

NOT INCLUDED

NOTE FOR MRC BMFD: IF REPLY CODE B IS ENTERED FOR MRC BMFB, REPLY TO MRC BMFD.

ALL* (See Note Above)

BMFD

J

EXPANDING CUTTER DIAMETER RANGE

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
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Definition: THE MINIMUM TO MAXIMUM LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE EXPANDING CUTTER, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric values, separated by a slash. Precede each value with the letter P. (e.g., BMFDJAP0.813/P1.063*; BMFDJLP20.6/P26.9*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

ALL* (See Note Preceding MRC BMDW)

BMFF	D	PURPOSE FOR WHICH GROUND
------	---	--------------------------

Definition: THE MACHINING OPERATION OR APPLICATION FOR WHICH THE CUTTER IS GROUND.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BMFFDBQQ*; BMFFDBHA\$DBQQ*)

<u>REPLY CODE</u>	<u>REPLY (AK54)</u>
BHA	BORING
BQQ	INTERNAL GROOVING
BQR	INTERNAL THREADING
BQS	INTERNAL TURNING
BQT	UNGROUND

NOTE FOR MRC BMFG: IF REPLY CODE BHA, BQQ, BQR, OR BQS IS ENTERED FOR MRC BMFF, REPLY TO MRC BMFG.

ALL* (See Note Above)

BMFG	B	CUTTING END ANGLE TO HORIZONTAL BAR AXIS IN DEG
------	---	--

Definition: THE ANGLE BETWEEN THE CUTTING END AND THE HORIZONTAL AXIS OF THE BAR, EXPRESSED IN DEGREES.

Reply Instructions: Enter the numeric value. (e.g., BMFGB60.0*)

FIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

ALL

ABMZ J DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A CIRCULAR FIGURE OR BODY, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABMZJAA0.750*; ABMZJLA19.1*; ABMZJAB0.745\$\$JAC0.755*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL

ABRY J LENGTH

Definition: A MEASUREMENT OF THE LONGEST DIMENSION OF ANY OBJECT, IN DISTINCTION FROM WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. Enter overall length for straight bars and the length of the straight section for bars with a taper. (e.g., ABRYJAA11.000*; ABRYJLA279.4*; ABRYJAB10.937\$\$JAC11.063*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

REPLY (AC20)

NOMINAL

MINIMUM

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
	C		MAXIMUM

ALL

ASWL D SHANK SHAPE

Definition: THE PHYSICAL CONFIGURATION OF THE SHANK.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ASWLDBK*; ASWLDBK\$DTA*)

<u>REPLY CODE</u>	<u>REPLY (AD07)</u>
BK	STRAIGHT
TA	TAPERED

NOTE FOR MRCS AQZL AND AQPQ: IF REPLY CODE TA IS ENTERED FOR MRC ASWL, REPLY TO MRCS AQZL AND AQPQ.

ALL* (See Note Above)

AQZL D TAPER SERIES

Definition: AN INDUSTRIAL DESIGNATOR USED TO INDICATE THE TAPER.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AQZLDAD*; AQZLDAD\$DAB*)

<u>REPLY CODE</u>	<u>REPLY (AH09)</u>
AD	BROWN AND SHARPE
AC	JARNO
AB	MORSE

ALL* (See Note Preceding MRC AQZL)

AQPQ A SHANK TAPER NUMBER

Definition: AN INDICATION OF THE NUMBER OF THE SHANK TAPER.

Reply Instructions: Enter the number. (e.g., AQPQA4*; AQPQA4\$A5*)

ALL

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
	BMFH	D	BUSHING

Definition: AN INDICATION OF WHETHER OR NOT A BUSHING IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BMFHDB*; BMFHDB\$DC*)

REPLY CODE

B
C

REPLY (AA49)

INCLUDED
NOT INCLUDED

FIIG T
Section Parts

SECTION: V

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code appearing in the Index of Approved Item Names. (e.g., NAMED05207*)

ALL*

BJWN	J	TABLE DIAMETER
------	---	----------------

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE TABLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BJWNJAA9.000*; BJWNJLA228.6*; BJWNJAB8.990\$\$JAC9.010*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL*

ABHP	J	OVERALL LENGTH
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Definition: THE DIMENSION MEASURED ALONG THE LONGITUDINAL AXIS WITH TERMINATED POINTS AT THE EXTREME ENDS OF THE ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABHPJAA56.000*; ABHPJAB55.000\$\$JAC56.500*; ABHPJLA1422.4*)

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
<hr/>			
		<u>Table 1</u>	
		<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
		A	INCHES
		L	MILLIMETERS
		 <u>Table 2</u>	
		<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
		A	NOMINAL
		B	MINIMUM
		C	MAXIMUM

ALL*

ABMK J OVERALL WIDTH

Definition: AN OVERALL MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF AN ITEM, IN DISTINCTION FROM THICKNES.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABMKJAA42.000*; ABMKJAB41.000\$\$JAC42.000*; ABMKJLA1066.8*)

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL

ABKW J OVERALL HEIGHT

Definition: THE DISTANCE MEASURED IN A STRAIGHT LINE FROM THE BOTTOM TO THE TOP OF AN ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABKWJAA3.563*; ABKWJLA90.5*; ABKWJAB3.500\$\$JAC3.625*)

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
<hr/>			
		<u>Table 1</u>	
		<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
		A	INCHES
		L	MILLIMETERS
		<u>Table 2</u>	
		<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
		A	NOMINAL
		B	MINIMUM
		C	MAXIMUM

ALL*

BMFJ D CENTER HOLE SHAPE

Definition: THE PHYSICAL CONFIGURATION OF THE CENTER HOLE.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BMFJDRD*; BMFJDRD\$DTA*)

<u>REPLY CODE</u>	<u>REPLY (AD07)</u>
RD	ROUND
TA	TAPERED

NOTE FOR MRCS ABMZ, AQZL, AND BMFK: IF REPLY CODE RD IS ENTERED FOR MRC BMFJ, REPLY TO MRC ABMZ. IF REPLY CODE TA IS ENTERED FOR MRC BMFJ, REPLY TO MRCS AQZL AND BMFK.

ALL* (See Note Above)

ABMZ J DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A CIRCULAR FIGURE OR BODY, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABMZJAA0.375*; ABMZJLA9.5*; ABMZJAB0.370\$\$JAC0.380*)

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
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Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC ABMZ)

AQZL	D	TAPER SERIES
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Definition: AN INDUSTRIAL DESIGNATOR USED TO INDICATE THE TAPER.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AQZLDAD*; AQZLDAD\$DAC*)

REPLY CODE

AD

AC

AB

REPLY (AH09)

BROWN AND SHARPE

JARNO

MORSE

ALL* (See Note Preceding MRC ABMZ)

BMFK	A	TAPER SIZE DESIGNATION
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Definition: THE ALPHA AND/OR NUMERIC SIZE DESIGNATION BY WHICH THE TAPER IS IDENTIFIED.

Reply Instructions: Enter the size designator. (e.g., BMFKA11*; BMFKA11\$A12*)

ALL*

BMFL	J	TEE SLOT WIDTH
------	---	----------------

Definition: A MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF THE TEE SLOT, FROM ONE EDGE TO THE OTHER, IN DISTINCTION FROM THICKNESS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BMFLJAA0.500*; BMFLJLA12.7*; BMFLJAB0.495\$\$JAC0.505*)

Table 1

REPLY CODE

REPLY (AA05)

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		A	INCHES
		L	MILLIMETERS
		<u>Table 2</u> <u>REPLY CODE</u>	
		A	<u>REPLY (AC20)</u> NOMINAL
		B	MINIMUM
		C	MAXIMUM

ALL

APHE D OPERATION METHOD

Definition: THE MEANS USED TO OPERATE THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., APHEDMR*; APHEDCF\$DMR*)

<u>REPLY CODE</u>	<u>REPLY (AC58)</u>
CF	MANUAL
MR	POWERED

ALL

ASYJ D VERNIER SCALE

Definition: AN INDICATION OF WHETHER OR NOT A VERNIER SCALE IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ASYJDB*; ASYJDB\$DC*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

ALL

BBXF D TILTING FEATURE

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
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Definition: AN INDICATION OF WHETHER OR NOT A TILTING FEATURE IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BBXFDB*; BBXFDB\$DC*)

REPLY CODE

B
C

REPLY (AA49)

INCLUDED
NOT INCLUDED

SECTION: W

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code appearing in the Index of Approved Item Names. (e.g., NAMED07153*)

ALL

ABHP	J	OVERALL LENGTH
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Definition: THE DIMENSION MEASURED ALONG THE LONGITUDINAL AXIS WITH TERMINATED POINTS AT THE EXTREME ENDS OF THE ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABHPJAA2.500*; ABHPJLA63.5*; ABHPJAB2.490\$\$JAC2.510*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL*

ABMZ	J	DIAMETER
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Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A CIRCULAR FIGURE OR BODY, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABMZJAA0.375*; ABMZJLA9.5*; ABMZJAB0.370\$\$JAC0.380*)

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
<hr/>			
		<u>Table 1</u>	
		<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
		A	INCHES
		L	MILLIMETERS
		<u>Table 2</u>	
		<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
		A	NOMINAL
		B	MINIMUM
		C	MAXIMUM

ALL*

ABGL J WIDTH

Definition: A MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF AN ITEM, IN DISTINCTION FROM THICKNESS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABGLJAA0.438*; ABGLJLA11.125*; ABGLJAB0.435\$\$JAC0.500*)

For hexagon or square shaped shanks, enter the dimension for the width across flats. (e.g., ABGLJAA0.500*; ABGLJLA12.7*)

	<u>Table 1</u>	
	<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
	A	INCHES
	L	MILLIMETERS
	<u>Table 2</u>	
	<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
	A	NOMINAL
	B	MINIMUM
	C	MAXIMUM

ALL

BMFM G DIAMOND SIZE DESIGNATION

Definition: THE INDUSTRIAL SIZE DESIGNATION FOR THE WEIGHT OF A DIAMOND.

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
<hr/> Reply Instructions: Enter in clear text the size value, followed by the carat designator K. (e.g., BMFMG1/16K to 1/20K*)			

SECTION: STANDARD

APP

Key MRC Mode Code Requirements

ALL*

FEAT G SPECIAL FEATURES

Definition: THOSE UNUSUAL OR UNIQUE CHARACTERISTICS OR QUALITIES OF AN ITEM NOT COVERED IN THE OTHER REQUIREMENTS AND WHICH ARE DETERMINED TO BE ESSENTIAL FOR IDENTIFICATION.

Reply Instructions: Enter the reply in clear text. Separate multiple replies with a semicolon. (e.g., FEATGADJUSTABLE NOSE CLIP*; FEATGADJUSTABLE NOSE PIECE; DISPOSABLE*)

ALL*

TEST J TEST DATA DOCUMENT

Definition: THE SPECIFICATION, STANDARD, DRAWING, OR SIMILAR INSTRUMENT THAT SPECIFIES ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS OR TEST CONDITIONS UNDER WHICH AN ITEM IS TESTED AND ESTABLISHES ACCEPTABLE LIMITS WITHIN WHICH THE ITEM MUST CONFORM IDENTIFIED BY AN ALPHABETIC AND/OR NUMERIC REFERENCE NUMBER. INCLUDES THE COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE OF THE ENTITY CONTROLLING THE INSTRUMENT.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the 5-position CAGE Code, a dash, and the document identification number.

(e.g., TESTJA12345-CWX654321*;

TESTJA1234A-654321\$\$JB5556A-663654*;

TESTJAA2345-654321\$JB55566-663654*)

REPLY
CODE

REPLY (AC28)

A

SPECIFICATION (Includes engineering type bulletins, brochures, etc., that reflect specification type data in specification format; excludes commercial catalogs, industry directories, and similar trade publications, reflecting general type data on certain environmental and performance requirements and test conditions that are shown as "typical," "average," "nominal," etc.)

B

STANDARD (Includes industry or association standards, individual manufacturer standards, etc.)

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		C	DRAWING (This is the basic governing drawing, such as a contractor drawing, original equipment manufacturer drawing, etc.; excludes any specification, standard, or other document that may be referenced in a basic governing drawing)

ALL*

SPCL G SPECIAL TEST FEATURES

Definition: TEST CONDITIONS AND RATINGS, OR ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS THAT ARE DIFFERENT, MORE CRITICAL, OR MORE SPECIFIC THAN THOSE SPECIFIED IN A GOVERNING TEST DATA DOCUMENT.

Reply Instructions: Enter the reply in clear text. (e.g., SPCLGSELECTED AND TESTED FOR NAVIGATIONAL SYSTEMS*)

ALL*

ZZZK J SPECIFICATION/STANDARD DATA

Definition: THE DOCUMENT DESIGNATOR OF THE SPECIFICATION OR STANDARD WHICH ESTABLISHED THE ITEM OF SUPPLY.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the Commercial and Government Entity (CAGE) Code of the entity controlling the document, a dash, and the document designator. The agency that controls the limited coordination document must be preceded and followed by a slash following the designator. The word canceled or superseded must be preceded and followed by a slash for the designator. Professional and industrial association specifications/standards are differentiated from a manufacturer's specification in that the data has been coordinated and published by the professional and industrial association. Include amendments and revisions where applicable.

(e.g., ZZZKJT81337-30642B*;

ZZZKJS81349-MIL-D-180 REV1/CANCELED/*;

ZZZKJP80205-NAS1103*;

ZZZKJS81349-MIL-C-1140C/CE/*;

ZZZKJT81337-30642B\$\$JP80205-NAS1103*)

FIIG T
Section Parts

APP

Key MRC Mode Code Requirements

REPLY
CODE

REPLY (AN62)

S	GOVERNMENT SPECIFICATION
T	GOVERNMENT STANDARD
D	MANUFACTURERS SOURCE CONTROL
R	MANUFACTURERS SPECIFICATION
N	MANUFACTURERS SPECIFICATION CONTROL
M	MANUFACTURERS STANDARD
A	PROFESSIONAL/INDUSTRIAL ASSOCIATION SPECIFICATION
P	PROFESSIONAL/INDUSTRIAL ASSOCIATION STANDARD

NOTE FOR MRC ZZZT: IF THE SPECIFICIATION/STANDARD CITED IN REPLY TO MRC ZZZK IS NONDEFINITIVE, REPLY TO MRC ZZZT. THIS REPLY IS THE DATA WHICH IS NOT RECORDED IN SEGMENT C.

ALL* (See Note Above)

ZZZT J NONDEFINITIVE SPEC/STD DATA

Definition: THE NUMBER, LETTER, OR SYMBOL THAT INDICATES THE TYPE, STYLE, GRADE, CLASS, AND THE LIKE, OF AN ITEM IN A NONIDENTIFYING SPECIFICATION OR STANDARD.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2, followed by the appropriate number, letter, or symbol. (e.g., ZZZTJTY1*; ZZZTJTY1\$JSTA*; ZZZTJTY1\$JSTA*)

ALL*

ZZZW G DEPARTURE FROM CITED DOCUMENT

Definition: THE TECHNICAL DIFFERENTIATING CHARACTERISTIC(S) OF AN ITEM OF SUPPLY WHICH DEPART(S) FROM THE TEXT OF A SPECIFICATION OR A STANDARD IN THAT IT REPRESENTS A SELECTION OF CHARACTERISTICS STATED IN THE SPECIFICATION OR STANDARD AS BEING OPTIONAL, OR A VARIATION FROM ONE OR MORE OF THE STATED CHARACTERISTICS, OR AN ADDITIONAL CHARACTERISTIC NOT STATED IN THE SPECIFICATION OR STANDARD.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZWGAS MODIFIED BY MATERIAL*)

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
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ALL*

ZZZX	G	DEPARTURE FROM CITED DESIGNATOR
------	---	---------------------------------

Definition: THE VARIATION WHEN THE ITEM IS IN CONFORMITY WITH A TYPE DESIGNATOR COVERED BY A SPECIFICATION OR STANDARD, EXCEPT IN REGARD TO ONE OR MORE TECHNICAL DIFFERENTIATING CHARACTERISTICS.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZXGAS MODIFIED BY MATERIAL*)

ALL*

ZZZY	G	REFERENCE NUMBER DIFFERENTIATING CHARACTERISTICS
------	---	--

Definition: A FEATURE OF THE ITEM OF SUPPLY WHICH MUST BE SPECIFICALLY RECORDED WHEN THE REFERENCE NUMBER COVERS A RANGE OF ITEMS.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZYGCOLOR CODED LEADS*; ZZZYGAS DIFFERENTIATED BY MATERIAL*)

ALL*

CRTL	A	CRITICALITY CODE JUSTIFICATION
------	---	--------------------------------

Definition: THE MASTER REQUIREMENT CODES OF THOSE REQUIREMENTS WHICH ARE TECHNICALLY CRITICAL BY REASON OF TOLERANCE, FIT, PERFORMANCE, OR OTHER CHARACTERISTICS WHICH AFFECT IDENTIFICATION OF THE ITEM.

Reply Instructions: Enter the Master Requirement Code for the requirement, the reply to which renders the item as being critical. (e.g., CRTLAMATL*; CRTLAMATL\$\$ASURF*)

Reply to this requirement only if the header record for the item identification for the item being identified has been coded as critical.

NOTE FOR MRC PRPY: IF DOCUMENT AVAILABILITY CODE B, D, F, OR H, REPLY TO MRC PRPY.

ALL* (See Note Above)

FIIG T
Section Parts

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

PRPY	A	PROPRIETARY CHARACTERISTICS
------	---	-----------------------------

Definition: IDENTIFICATION OF THOSE CHARACTERISTICS INCLUDED IN THE DESCRIPTION FOR WHICH A NON-GOVERNMENT ACTIVITY HAS IDENTIFIED ALL OR SELECTED CHARACTERISTICS OF THE ITEM AS BEING PROPRIETARY AND THEREFORE RESTRICTED FROM RELEASE OUTSIDE THE GOVERNMENT WITHOUT PRIOR PERMISSION OF THE ORIGINATOR OF THE DATA.

Reply Instructions: Enter the MRC codes of the individual characteristics of the description which are marked proprietary on the technical data, using AND coding (\$\$) for multiple characteristics. If all the MRCs are proprietary, enter the reply PACS. If none of the MRCs is proprietary, enter the reply NPAC. (e.g., PRPYAPACS*; PRPYANPAC*; PRPYAMATL\$\$ASURF*)

ALL*

ELRN	G	EXTRA LONG REFERENCE NUMBER
------	---	-----------------------------

Definition: A REFERENCE NUMBER EXCEEDING 32 POSITIONS.

Reply Instructions: Enter the entire reference number. Do not include the 5-position Commercial and Government Entity (CAGE) Code unless there is more than one extra long reference number on the NSN, (e.g., ELRNGANN112036BIL060557LEN313605UZ62365*).

If there is more than one extra long reference number on the NSN, include the CAGE or NCAGE and separate each reference by using the "&" character, (e.g., 28480 ANN112036BIL060557LEN313605UZ62365 & S1234 NN112036BIL060557LEN313605UZ62365).

In determining quantity of characters in the reference number, count will be made after modification in accordance with Volume 2, Chapter 9, FLIS Procedures Manual, DoD 4100.39-M.

ALL*

ELCD	D	EXTRA LONG CHARACTERISTIC DESCRIPTION
------	---	---------------------------------------

Definition: A DESCRIPTION THAT EXCEEDS 5000 CHARACTERS.

Reply Instructions: Enter the Reply Code from the table below. (e.g., ELCDDA*)

REPLY
CODE

REPLY (AN58)

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		A	ADDITIONAL DESCRIPTIVE DATA ON MANUAL RECORD

FIIG T
Section Parts

SECTION: SUPPTECH

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

AFJK	J	CUBIC MEASURE
------	---	---------------

Definition: A MEASUREMENT OF VOLUME TAKEN BY MULTIPLYING THE LENGTH BY THE WIDTH BY THE HEIGHT OF AN ITEM AND RENDERED IN CUBIC UNITS.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AFJKJB8.000*; AFJKJC131.120*)

<u>REPLY CODE</u>	<u>REPLY (AD42)</u>
C	CUBIC CENTIMETERS
B	CUBIC INCHES

ALL

SUPP	G	SUPPLEMENTARY FEATURES
------	---	------------------------

Definition: CHARACTERISTICS OR QUALITIES OF AN ITEM, NOT COVERED IN ANY OTHER REQUIREMENT, WHICH ARE CONSIDERED ESSENTIAL INFORMATION FOR ONE OR MORE FUNCTIONS EXCLUDING NSN ASSIGNMENT.

Reply Instructions: Enter the reply in clear text. (e.g., SUPPGMAY INCL HOLE IN UPPER SUPPORT FOR MTG DURING SHIPMENT*)

ALL

ZZZP	J	PURCHASE DESCRIPTION IDENTIFICATION
------	---	-------------------------------------

Definition: THE CONTROLLING ACTIVITY AND IDENTIFICATION OF A DOCUMENT USED IN LIEU OF A SPECIFICATION IN THE PROCUREMENT OF AN ITEM OF SUPPLY.

Reply Instructions: Enter the 5-position Commercial and Government Entity (CAGE) Code, followed by a dash and the identifying number of document.

(e.g., ZZZPJ81337-30624A*)

ALL

ZZZV	G	FSC APPLICATION DATA
------	---	----------------------

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

Definition: THE JUSTIFICATION FOR THE ASSIGNMENT OF A FEDERAL SUPPLY CLASS (FSC) TO AN ITEM BASED ON THE CLASSIFICATION OF THE NEXT HIGHER CLASSIFIABLE ASSEMBLY.

Reply Instructions: Enter the next higher classifiable assembly in clear text. (e.g., ZZZVGBEARINGS, ANTIFRICTION, UNMOUNTED*)

ALL

AGAV	G	END ITEM IDENTIFICATION
------	---	-------------------------

Definition: THE NATIONAL STOCK NUMBER OR THE IDENTIFICATION INFORMATION OF THE END EQUIPMENT FOR WHICH THE ITEM IS A PART.

Reply Instructions: Enter the reply in clear text.

(e.g., AGAVG3930-00-000-0000*;

AGAVGFORKLIFT TRUCK, SMITH CORPORATION, MODEL 12, TYPE A*)

ALL

CXCY	G	PART NAME ASSIGNED BY CONTROLLING AGENCY
------	---	--

Definition: THE NAME ASSIGNED TO THE ITEM BY THE GOVERNMENT AGENCY OR COMMERCIAL ORGANIZATION CONTROLLING THE DESIGN OF THE ITEM.

Reply Instructions: Enter the reply in clear text. (e.g., CXCYGLINE PROCESSOR CONTROL BOARD*)

FIG T
Section Parts

FIG T
Section Parts

[Blank Page]

Reply Tables

Table 1 - MATERIALS	177
Table 2 - NONDEFINITIVE SPEC/STD DATA.....	177

Table 1 - MATERIALS
MATERIALS

<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ALC000	ALUMINUM
AL0000	ALUMINUM ALLOY
AL0887	ALUMINUM ALLOY, QQ-A-225/8, T6
AS0000	ASBESTOS
BR0000	BRASS
BN0000	BRONZE
DFK000	CANVAS
CH0000	CHROME
CU0000	COPPER
CQA000	CORK
FT0000	FELT
DFJ000	FLANNEL
MEF000	GUNMETAL
FE0000	IRON
FEA000	IRON, CAST
FEC000	IRON, MALLEABLE
PB0000	LEAD
LR0000	LEATHER
MN0000	MANGANESE
DFCCCR	MUSLIN
NC0000	NICKEL COPPER ALLOY (Monel)
NL0000	NON-FERROUS ALLOY
RC0000	RUBBER
RCH000	RUBBER, CHLOROPRENE (Neoprene)
RCC000	RUBBER, SYNTHETIC
STAAB0	SEMI-STEEL
ST0000	STEEL
STAF00	STEEL, CARBIDE
STC000	STEEL, COLD ROLLED
STB000	STEEL, CORROSION RESISTING
STS000	STEEL, HIGH SPEED
STA090	STEEL, QQ-S-624, COMP FS4150
STA098	STEEL, QQ-S-624, COMP FS8750
ST1505	STEEL, QQ-S-624, COMP 6150
ST1523	STEEL, QQ-S-624, COMP 8650
ST1660	STEEL, QQ-S-763, CLASS 410
TN0000	TUNGSTEN
TNA000	TUNGSTEN CARBIDE

Table 2 - NONDEFINITIVE SPEC/STD DATA
NONDEFINITIVE SPEC/STD DATA

<u>REPLY CODE</u>	<u>REPLY (AD08)</u>
AL	ALLOY
AN	ANNEX
AP	APPENDIX
AC	APPLICABILITY CLASS
AR	ARRANGEMENT
AS	ASSEMBLY
AB	ASSORTMENT
BX	BOX
CY	CAPACITY
CA	CASE
CT	CATEGORY
CL	CLASS
CE	CODE
CR	COLOR
CC	COMBINATION CODE
CN	COMPONENT
CP	COMPOSITION
CM	COMPOUND
CD	CONDITION
CS	CONSTRUCTION
DE	DESIGN
DG	DESIGNATOR
DW	DRAWING NUMBER
EG	EDGE
EN	END
FY	FAMILY
FG	FIGURE
FN	FINISH
FM	FORM
FA	FORMULA
GR	GRADE
GP	GROUP
BA	IMAGE COLOR
NS	INSERT
TM	ITEM
KD	KIND
KT	KIT
LG	LENGTH
LT	LIMIT
MK	MARK
AA	MARKER
ML	MATERIAL
BB	MAXIMUM DENSITY
MH	MESH
ME	METHOD
BC	MINIMUM DESNITY
MD	MODEL
MT	MOUNTING

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APPENDIX A

<u>REPLY CODE</u>	<u>REPLY (AD08)</u>
NR	NUMBER
PT	PART
PN	PATTERN
PC	PHYSICAL CONDITION
PS	PIECE
PL	PLAN
PR	POINT
QA	QUALITY
RN	RANGE
RT	RATING
RF	REFERENCE NUMBER
SC	SCHEDULE
SB	SECTION
SL	SELECTION
SE	SERIES
SV	SERVICE
SX	SET
SA	SHADE
SH	SHAPE
SG	SHEET
SZ	SIZE
PZ	SPECIES
SQ	SPECIFICATION SHEET
SD	SPEED
ST	STYLE
SS	SUBCLASS
SF	SUBFORM
SP	SUBTYPE
SN	SURFACE CONDITION
SY	SYMBOL
SM	SYSTEM
TB	TABLE
TN	TANNAGE
TP	TEMPER
TX	TEXTURE
TK	THICKNESS
TT	TREATMENT
TR	TRIM
TY	TYPE
YN	UNIT
VA	VARIETY
WT	WEIGHT
WD	WIDTH

Reference Drawing Groups

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REFERENCE DRAWING GROUP A Tables
STONE STYLES

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value.
(e.g., ABHPJAA4.000*; ABHPJAB3.990\$\$JAC4.010*; ABHPJLA101.6*)

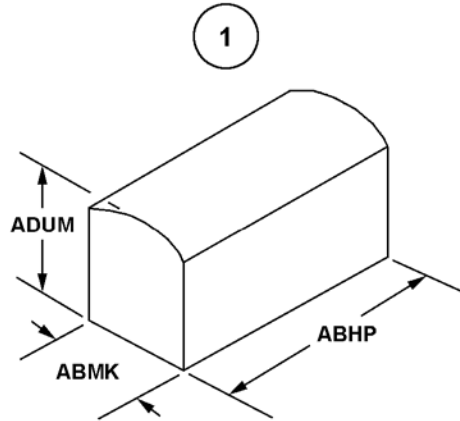
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

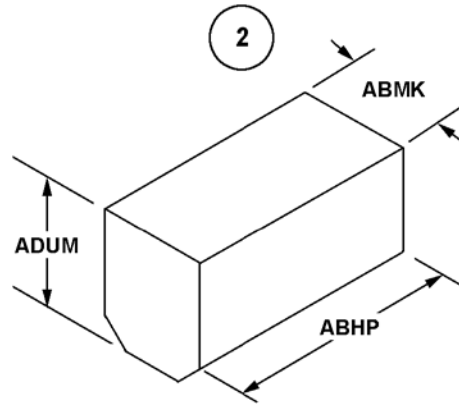
<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
ABHP	J	OVERALL LENGTH
ABMK	J	OVERALL WIDTH
ACVR	J	SHANK WIDTH
ADUM	J	OVERALL THICKNESS
AZRG	J	FACE THICKNESS

REFERENCE DRAWING GROUP A

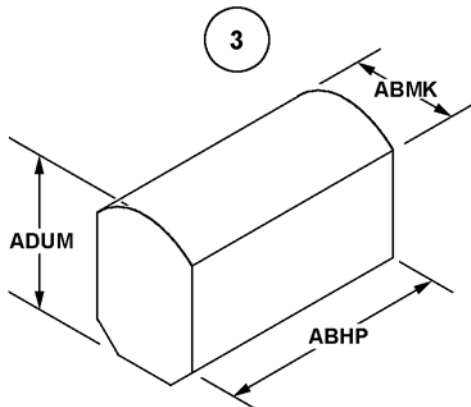
STONE STYLES



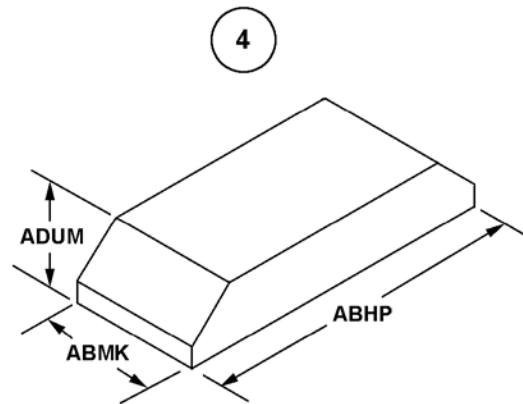
RECTANGLE, ROUNDED TOP



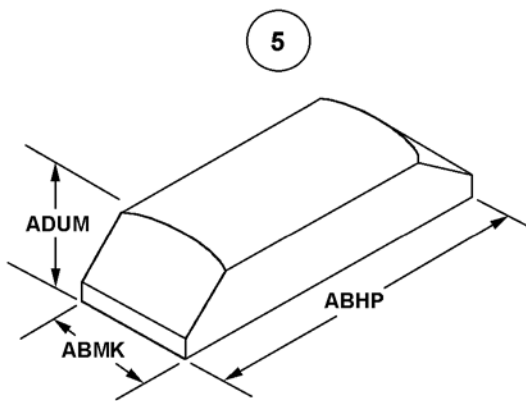
RECTANGLE, BEVELED BOTTOM



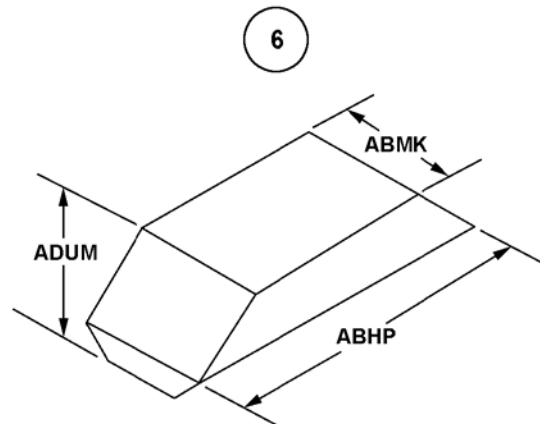
**RECTANGLE, ROUNDED TOP
AND BEVELED BOTTOM**



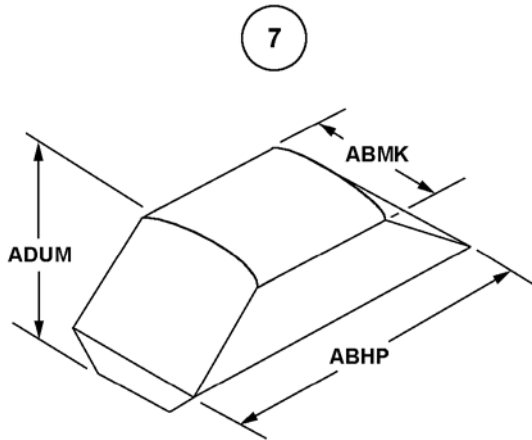
RECTANGLE, SLOPING ENDS



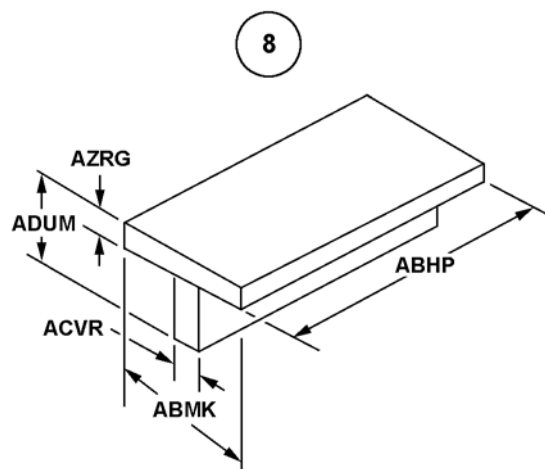
**RECTANGLE, ROUNDED TOP AND
SLOPING ENDS**



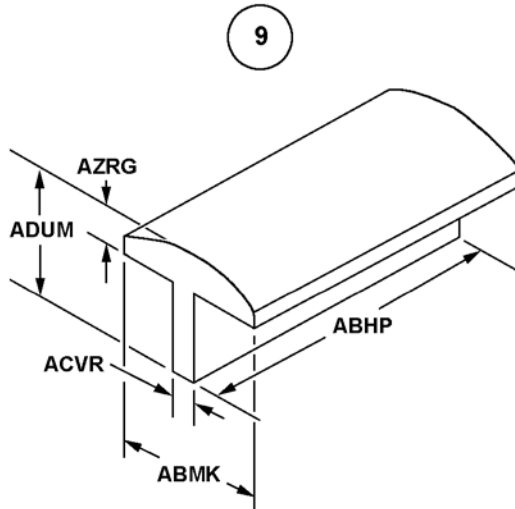
**RECTANGLE, SLOPING ENDS AND
BEVELED BOTTOM**



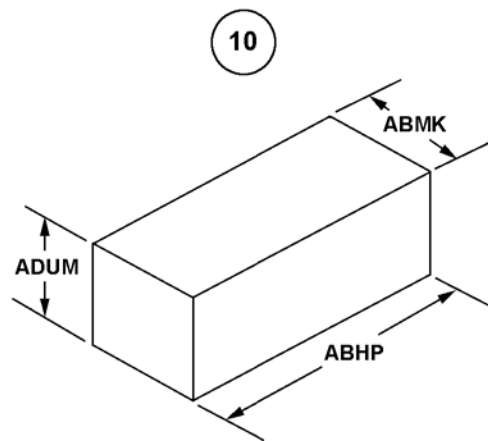
RECTANGLE, ROUNDED TOP, SLOPING
ENDS AND BEVELED BOTTOM



"T" CROSS SECTION



"T" CROSS SECTION,
ROUNDED TOP



RECTANGLE

REFERENCE DRAWING GROUP B Tables
HOLDER STYLES

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value.
(e.g., ABKWJAA2.500*; ABKWJAB2.490\$\$JAC2.510*; ABKWJLA63.5*)

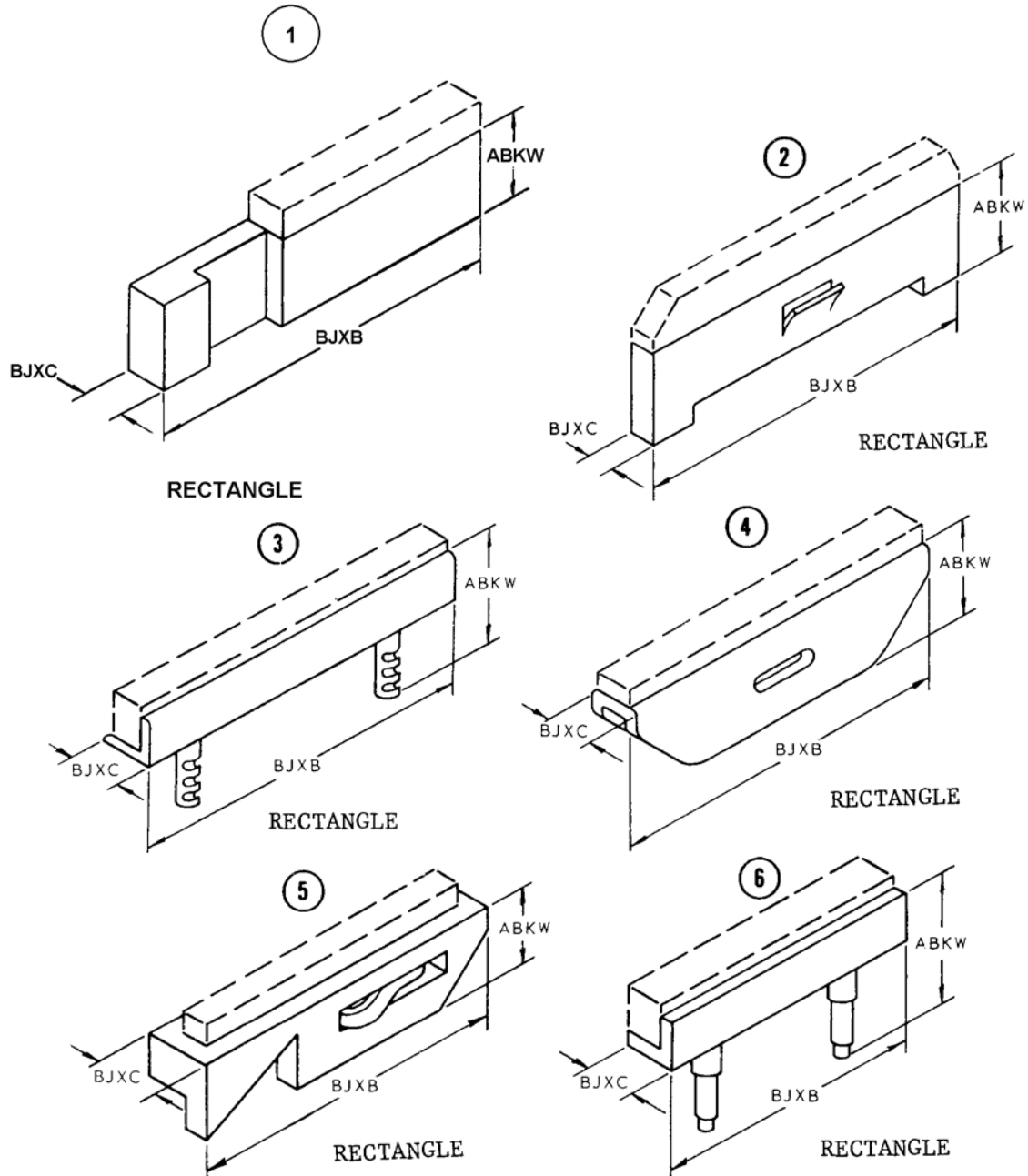
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

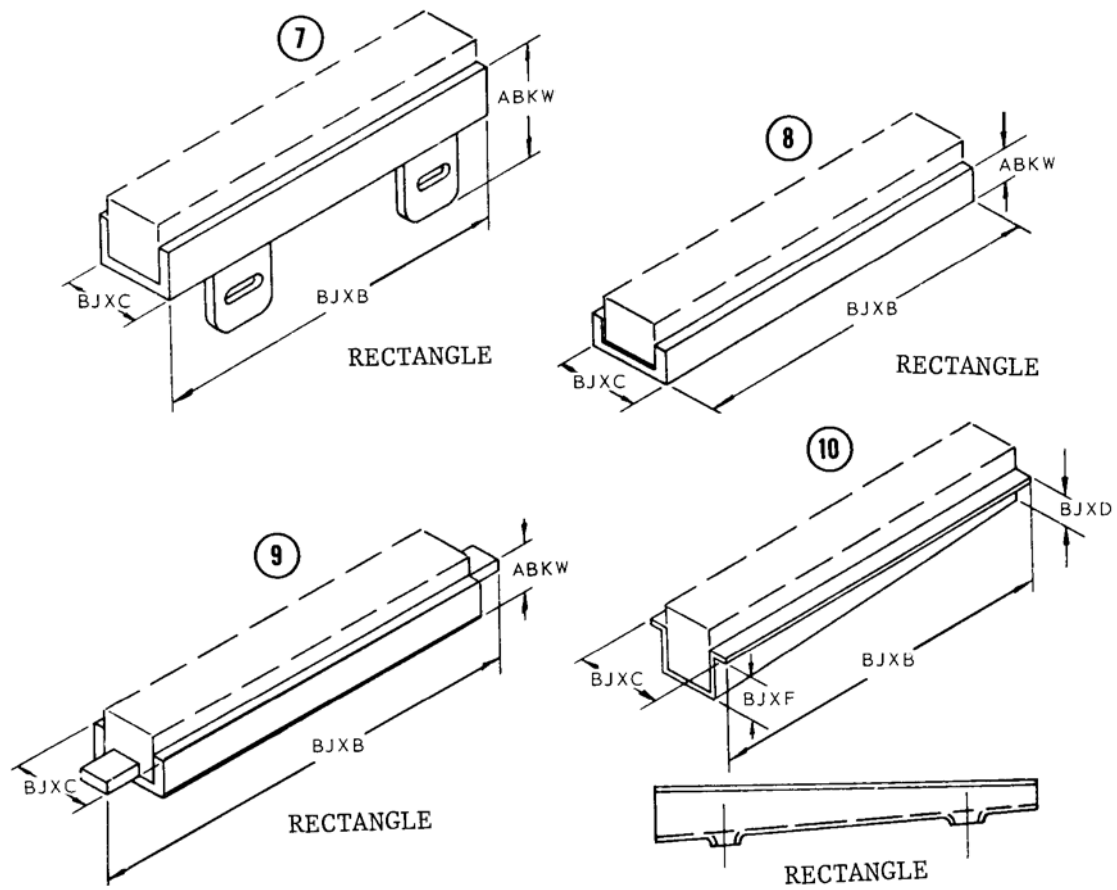
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

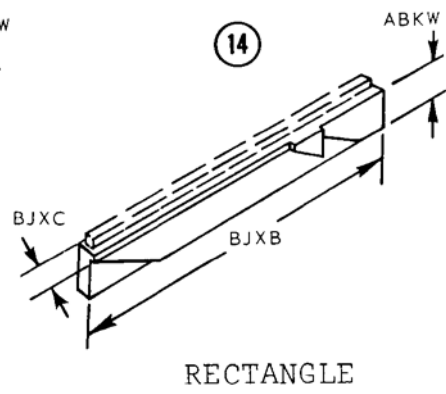
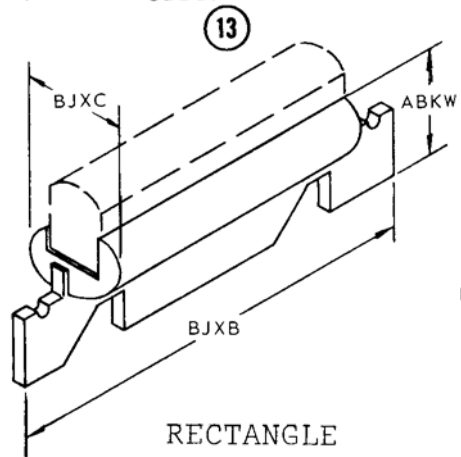
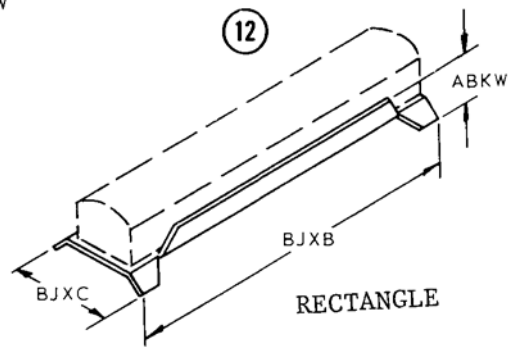
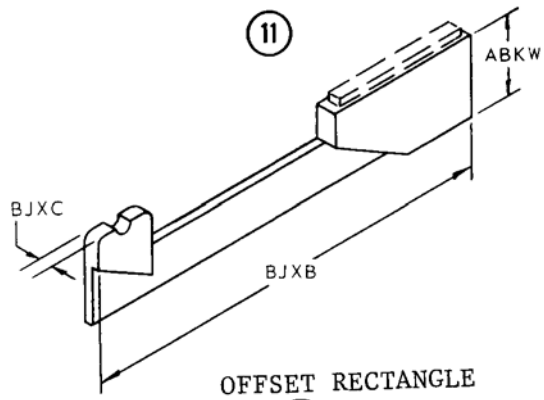
<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
ABKW	J	OVERALL HEIGHT
BJXB	J	HOLDER OVERALL LENGTH
BJXC	J	HOLDER OVERALL WIDTH
BJXD	J	MINOR CHANNEL HEIGHT
BJXF	J	MAJOR CHANNEL HEIGHT

REFERENCE DRAWING GROUP B

HOLDER STYLES







REFERENCE DRAWING GROUP C Tables
SOLID PILOT STYLES

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value.
(e.g., BMDMJAA4.000*; BMDMJAB3.990\$\$JAC4.010*; BMDMJLA101.6*)

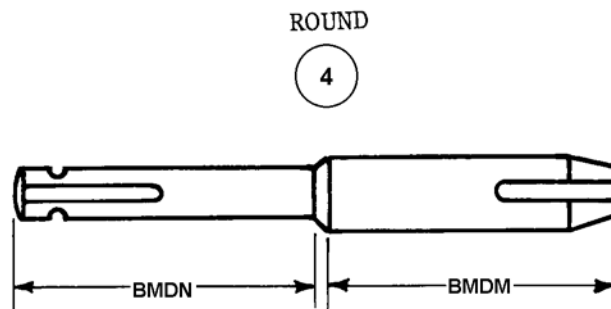
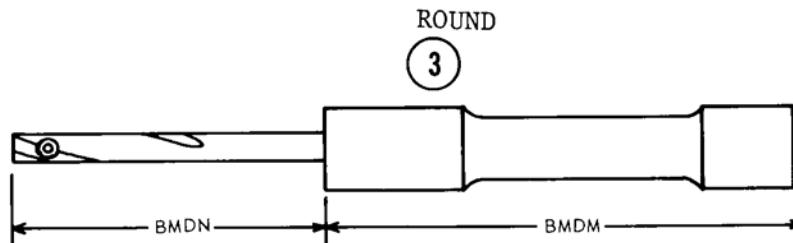
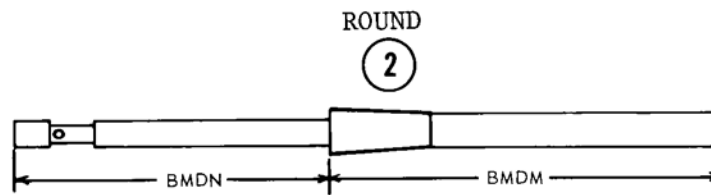
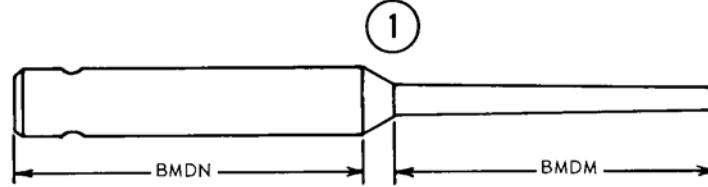
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
BMDM	J	LOWER END LENGTH
BMDN	J	UPPER END LENGTH

REFERENCE DRAWING GROUP C

SOLID PILOT STYLES



ROUND

REFERENCE DRAWING GROUP D Tables
EXPANDING PILOT STYLES

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value.
(e.g., BMDPJAA1.750*; BMDPJAB1.740\$\$JAC1.760*; BMDPJLA44.4*)

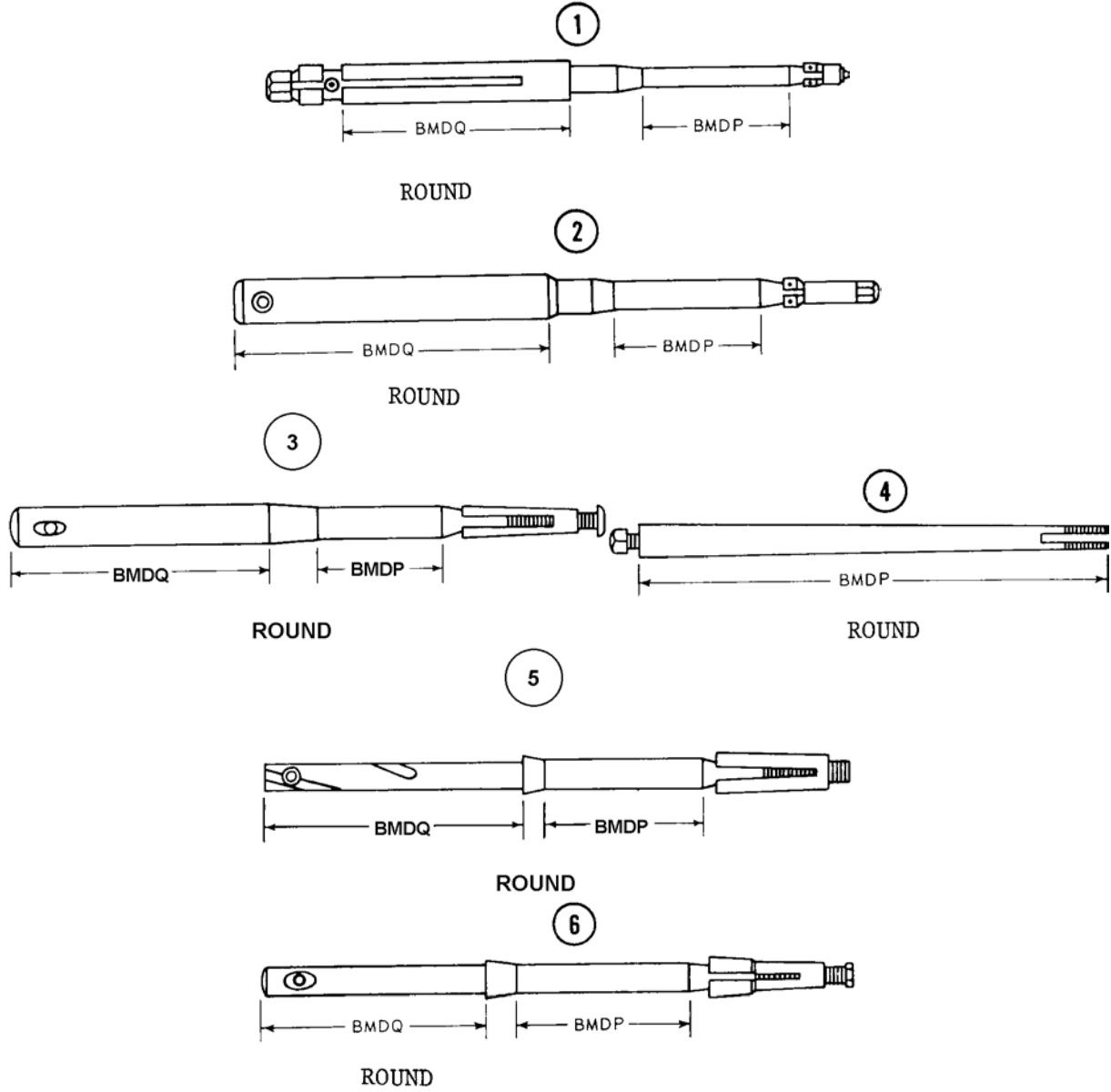
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

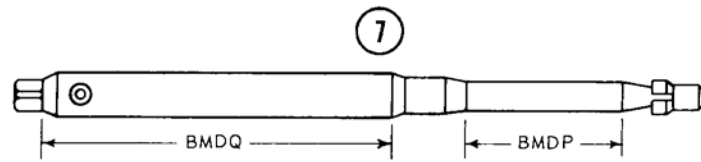
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
BMDP	J	EXPANDING PILOT LOWER END LENGTH
BMDQ	J	EXPANDING PILOT UPPER END LENGTH

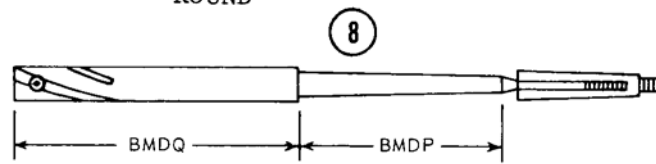
REFERENCE DRAWING GROUP D

EXPANDING PILOT STYLES





ROUND



COUNTER BORED GUIDE TYPE

Technical Data Tables

STANDARD FRACTION TO DECIMAL CONVERSION CHART	195
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APPENDIX C

STANDARD FRACTION TO DECIMAL CONVERSION CHART

<u>4ths</u>	<u>8ths</u>	<u>16ths</u>	<u>32nds</u>	<u>64ths</u>	<u>To 3</u>	<u>To 4</u>	<u>4ths</u>	<u>8ths</u>	<u>16ths</u>	<u>32nds</u>	<u>64ths</u>	<u>To 3</u>	<u>To 4</u>
				1/64	.016	.0156					33/64	.516	.5156
			1/32	-----	.031	.0312				17/32	-----	.531	.5312
				3/64	.047	.0469					35/64	.547	.5469
		1/16	-----		.062	.0625			9/16	-----	-----	.562	.5625
				5/64	.078	.0781					37/64	.578	.5781
			3/32	-----	.094	.0938				19/32	-----	.594	.5938
				7/64	.109	.1094					39/64	.609	.6094
	1/8	-----	-----	-----	.125	.1250		5/8	-----	-----	-----	.625	.6250
				9/64	.141	.1406					41/64	.641	.6406
			5/32	-----	.156	.1562				21/32	-----	.656	.6562
				11/64	.172	.1719					43/64	.672	.6719
		3/16	-----	-----	.188	.1875			11/16	-----	-----	.688	.6875
				13/64	.203	.2031					45/64	.703	.7031
			7/32	-----	.219	.2188				23/32	-----	.719	.7188
				15/64	.234	.2344					47/64	.734	.7344
1/4	-----	-----	-----	-----	.250	.2500	3/4	-----	-----	-----	-----	.750	.7500
				17/64	.266	.2656					49/64	.766	.7656
			9/32	-----	.281	.2812				25/32	-----	.781	.7812
				19/64	.297	.2969					51/64	.797	.7969
		5/16	-----	-----	.312	.3125			13/16	-----	-----	.812	.8125
				21/64	.328	.3281					53/64	.828	.8281
			11/32	-----	.344	.3438				27/32	-----	.844	.8438
				23/64	.359	.3594					55/64	.859	.8594
	3/8	-----	-----	-----	.375	.3750		7/8	-----	-----	-----	.875	.8750
				25/64	.391	.3906					57/64	.891	.8906
			13/32	-----	.406	.4062				29/32	-----	.906	.9062
				27/64	.422	.4219					59/64	.922	.9219
		7/16	-----	-----	.438	.4375			15/16	-----	-----	.938	.9375
				29/64	.453	.4531					61/64	.953	.9531
			15/32	-----	.469	.4688				31/32	-----	.969	.9688
				31/64	.484	.4844					63/64	.984	.9844
					.500	.5000						1.000	1.0000

FIIG Change List

FIIG Change List, Effective September 3, 2010

Added MRC AGAV to Section 3.

Deleted SAC coding from MRCs ABVK, AJYP nad AAJF in Part B.